

A BIOMATHEMATICAL ETHICS PRIMER WORKBOOK
OR,
A FILL-IN-THE-BLANK, DO-OVER BOOK

by Edmond Maurice Peyroux, A.S.



A BIOMATHEMATICAL ETHICS
PRIMER WORKBOOK
OR
AN ACTIVITY BOOK FOR GROWN-UPS
by Edmond Maurice Peyroux, A.S.

TO: _____

a ray of sunshine,
brightening my day
and
warming my frigid heart,

FROM: _____

HUNGRY DOG PRESS ~ "A Hungry Dog Hunts Fast!"

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SVG files available from the author on request

COPYLEFT 2021 EDMOND MAURICE PEYROUX
THE COSMOS IS MADE OF HEARTS AND BUTTERFLIES AND KISSES.

EDWARD TUFT
CLUTTERED AND/OR CONFUSING. IF SOMETHING IS
OVERLOAD, JUST BAD DESIGN. IF SOMETHING IS
“THERE IS NO SUCH THING AS INFORMATION
SIMPLIFY FROM THERE.
& HELIUM GROUPS IN KRAFFT'S MODEL, WELL

PAGE 5 TESLA IN THE AETHER TIMELINE

PAGE 4 PERIODIC TREE

PAGE 3 SINCE EVERYTHING IS MADE OF HYDROGEN
SIMPLIFY FROM THERE.
& HELIUM GROUPS IN KRAFFT'S MODEL, WELL

PAGE 2 ... YOU MAY ALREADY IMAGINE A FEW OPERATIONS
YOU CAN PERFORM.

PAGE 1 CAN YOU TEACH CHEMISTRY TO KINDERGARTEN?

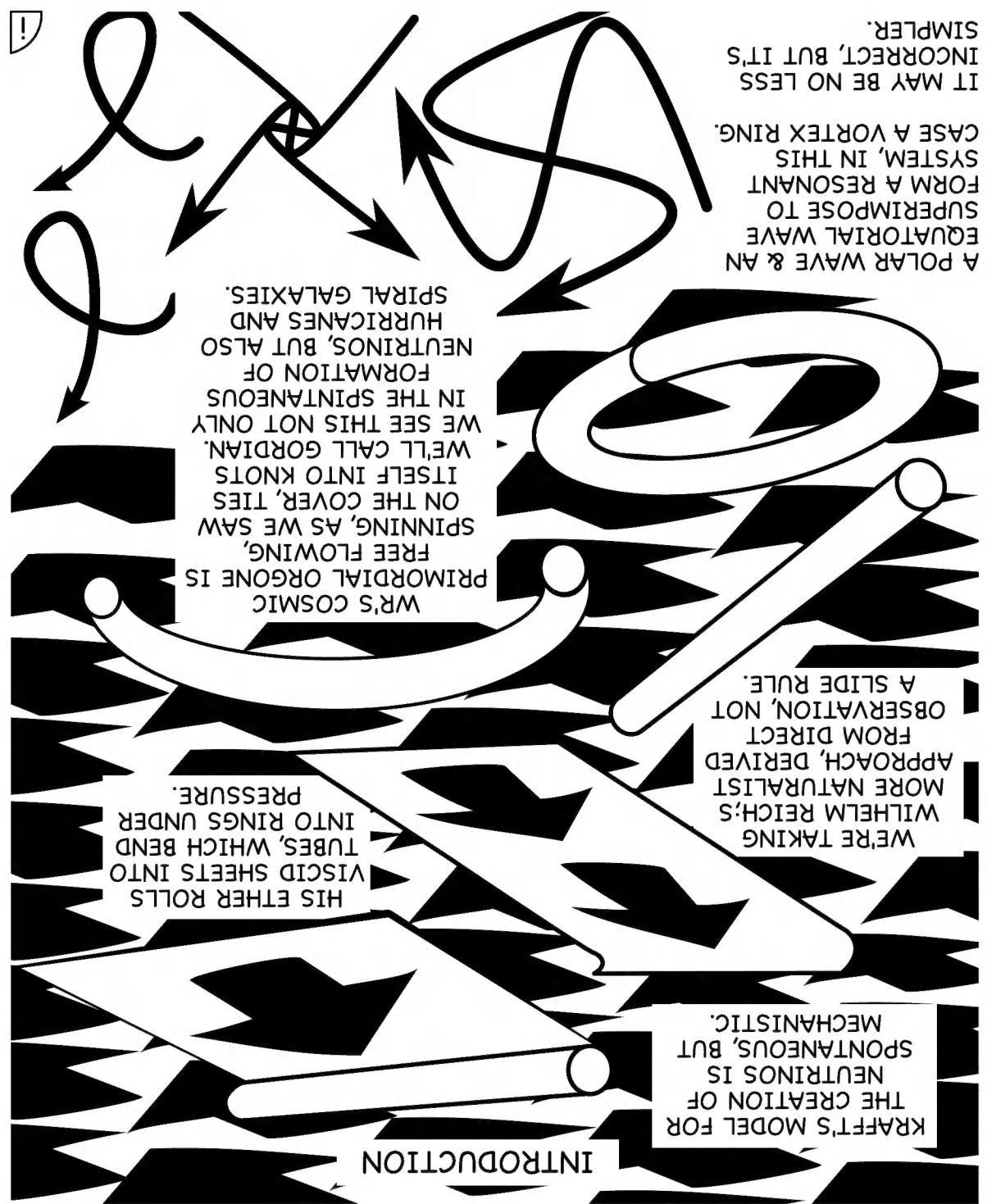
PAGE ! INTRODUCTION

INSIDE COVER INDICIA

INSIDE COVER TABLE OF CONTENTS

COVER HOW MANY UNIFYING THEORIES OF EVERYTHING
DOES IT TAKE TO GET TO YOUR BIOLOGICAL CORE?

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THE MORAL COMPASS PROJECT

A BIOMATHEMATICAL ETHICS PRIMER WORKBOOK

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PREFACE

THE MATH PROJECT STARTED FOUR SUMMERS AGO, IN MID TO LATE 2017, THEN GOT SHELVED UNTIL THIS PAST HOLIDAY SEASON, 2020, WHEN THE AUTHOR DECIDED TO WRITE IT INTO A BOOK.

IT'S VERY LATE FOR CHRISTMAS 2020 BUT HOPEFULLY EARLY ENOUGH FOR VALENTINE'S DAY 2021.

IT DEVELOPS SPONTANEOUSLY, A SYNTHESIS OF WORKS & INSPIRATION.

BEST INSPIRATION OFTEN COMES FROM WORK, & MANY PARTS OF THE FOLLOWING MAY BE REGARDED AS DERIVED MATH. IT REMAINS, AS ORIGINAL AS YOU, THE READER, MAKE IT.

ROBERT AXELROD'S STUDIES IN COOPERATION & COMPLEXITY WERE MY STARTING POINT, & OBSERVANT READERS MAY NOTE HIS CONTRIBUTION TO UNDERSTANDING SPECIATION (REPLICATION, VARIATION, INTERACTION, & SELECTION) MIMICKED HEREIN, HOWEVER, IT'S HIS EARLIER WORK WITH RECIPROCAL ALTRUISM & EVOLUTIONARILY STABLE STRATEGY THAT FOUNDS OUR BASIS HERE.

1 PAGE

THE MORAL COMPASS PROJECT

13 STEPS OF ETHICAL DILEMMA RECOVERY

1. We admitted we have personal power in our dilemma,
2. Accepted that a moral compass can restore sanity,
3. Devoted ourselves to moral concepts,
4. Took a moral inventory,
5. Admitted we were wrong,
6. Prepared to correct ourselves,
7. Humbly corrected ourselves,
8. Made a list of all harmed by such previous moral failure and became willing to make amends,
9. Made direct amends wherever possible except when to do so would cause more harm,
10. Continued to take inventory and to admit when we're wrong,
11. Sought to improve our moral compass,
12. Shared our moral compass with others,
13. Repeated step 1 and continued, reworking all thirteen steps, one day at a time.

INFLUENCED BY ROBERT AXELROD'S FINDING OF GENEROSITY AS SECOND MOST EVOLUTIONARILY STABLE STRATEGY (ESS),* WE REFERENCE GAY BRADSHAW'S "BIOLOGY OF FORGIVENESS" HEAVILY.

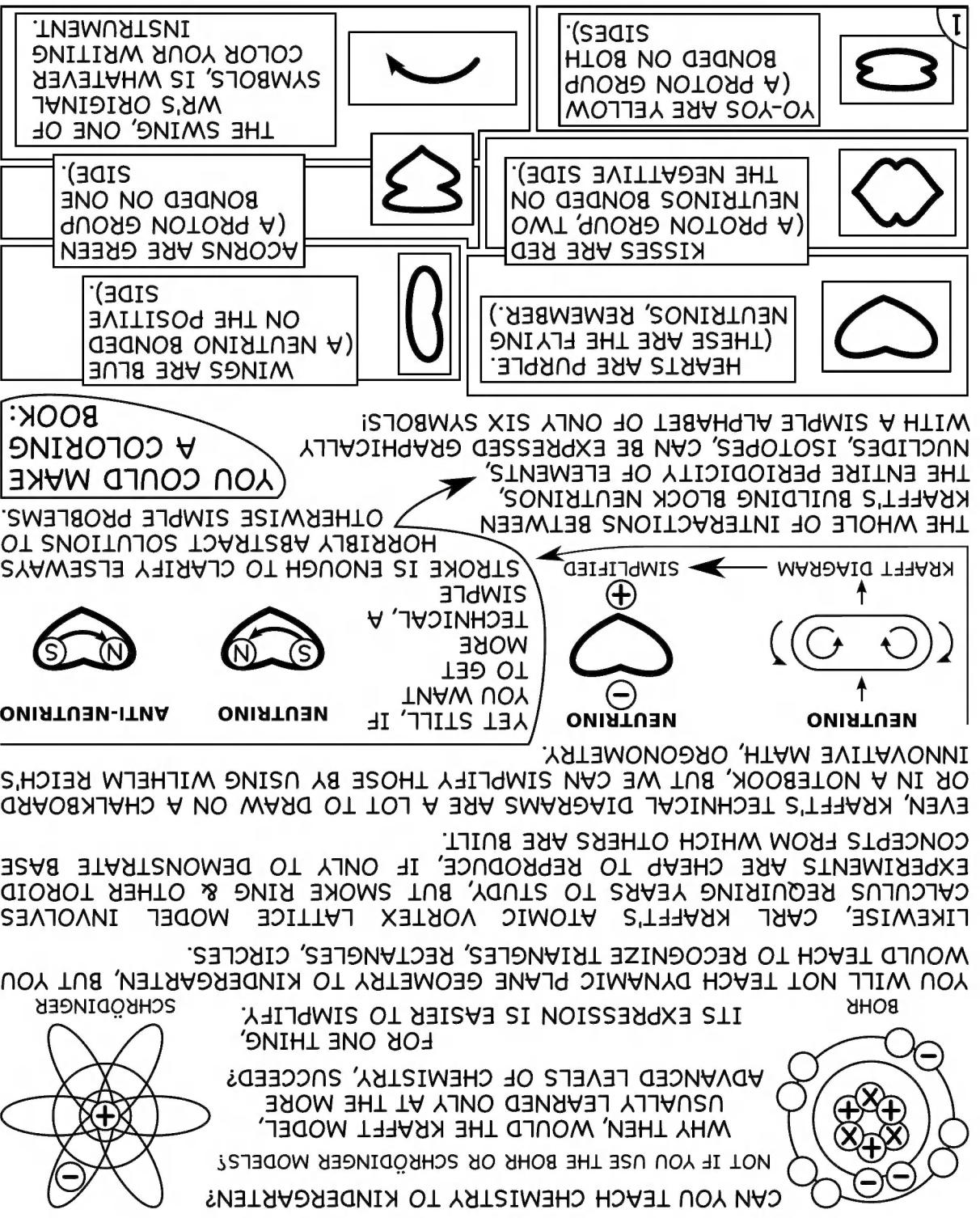
THE #1 ESS, THE ONLY TO BEAT GENEROSITY, THAT BEING CONTRITION, ADMITTING WRONG, ACCEPTING PENALTY, COMPRISES THE BULK OF THE NOTORIOUS 12 STEPS OF RECOVERY, SPECIFICALLY STEPS 5 & 10, BUT ALSO IMPLIED IN ALL STEPS PRECEDING & FOLLOWING, WITH ULTIMATE GOAL, RESTITUTION (SPECIFICALLY, STEP 9, BUT, AGAIN, IMPLIED THROUGHOUT).

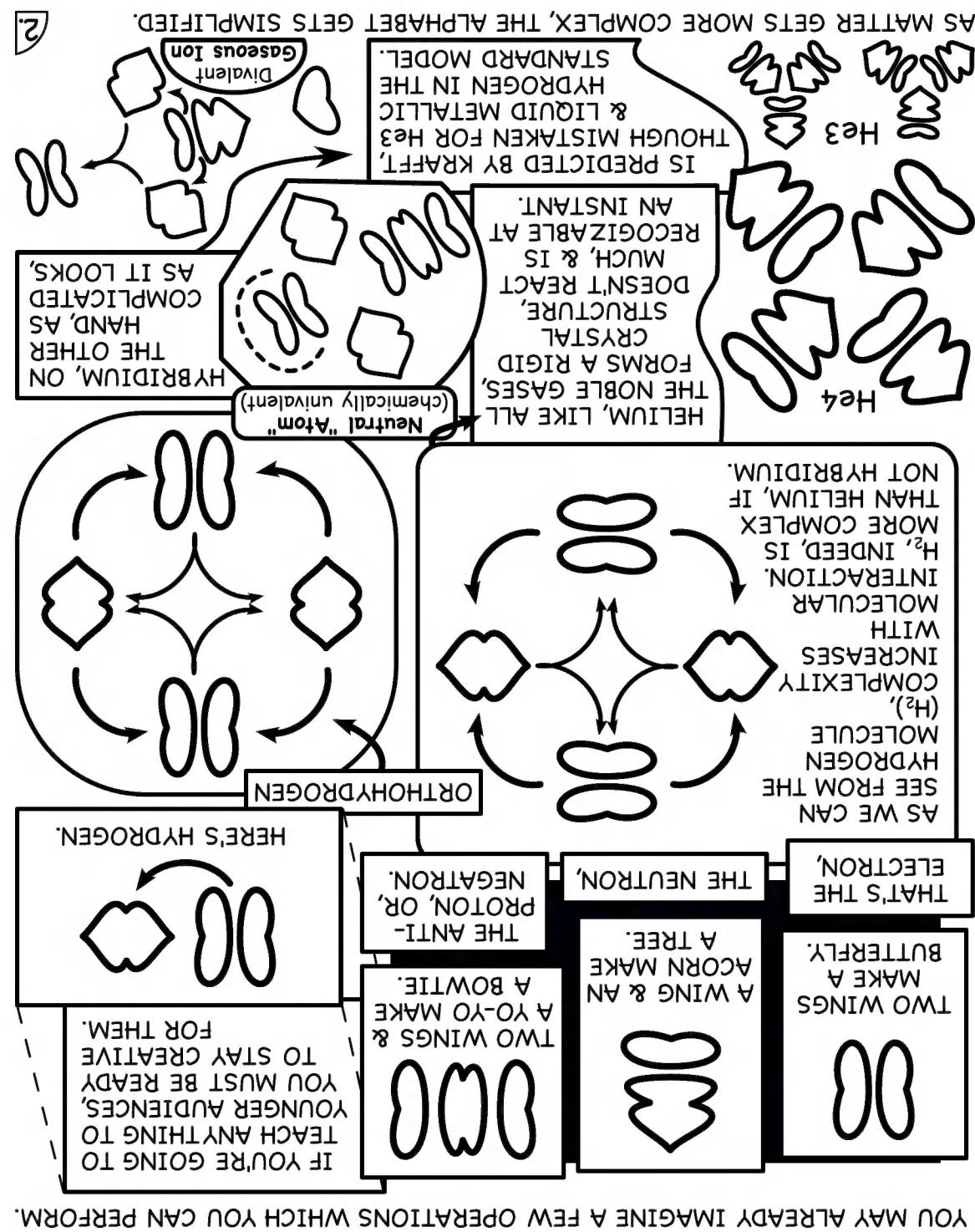
BESIDES THAT BRADSHAW GIVES US FORGIVENESS IN 3 STEPS, THE TRADITIONAL 12 STEPS RESTITUTION BEGINS WITH ADMITTING POWERLESSNESS. FOR OUR BIOMATHEMATICAL PURPOSES, STARTING, RATHER, WITH ADMITTING PERSONAL POWER GROUNDS US BETTER IN OUR WORK BECAUSE THE FORMULA FOR POWER IS WORK DONE OVER TIME.**

WE ARE NOT POWERLESS HERE; FOR ONE THING, WE CAN READ & WRITE. THE 12 STEPS OF RECOVERY HAVE BEEN REWRITTEN MANY TIMES, AS NEEDED, & WE CONTINUE THE TRADITION HERE AT LEFT.

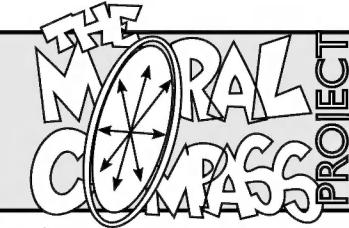
*AMONG GROUPS OF STRATEGIES COMPETING TO BENEFIT MOST FROM COOPERATION WHILE COPING WITH RANDOM ERROR (SYSTEM NOISE), GENEROUS & CONTRITE STRATEGIES ARE IN THE MOST ROBUST GROUP OF STRATEGIES TIT-FOR-TAT.

**** POWER = (WORK DONE) / TIME**





PROLEGOMENON



AFTER SO MANY STEPS TO RESTITUTION (CONTRITION), FORGIVENESS (GENEROSITY) IS SHORT AND SIMPLE:

BRADSHAW'S 3 STEPS OF FORGIVENESS

1. PERCEIVE TRANSGRESSION.
2. RECOGNIZE PREEXISTING RELATIONSHIP WITH TRANSGRESSOR.
3. INITIATE SELF-REPAIR PROCESS.

NOTICE, IT DOESN'T SAY MAKE NICE. ELSEWHERE IN THE BOOK, IT ACTUALLY READS SPECIFICALLY,

"RECONCILIATION REQUIRES MUTUAL PARTICIPATION WHEREAS FORGIVENESS REQUIRES ONLY ONE PERSON."

MORE PARAPHRASE FROM BRADSHAW'S "BIOLOGY OF FORGIVENESS" TO INFORM OUR MORAL COMPASS MAY INCLUDE,

Compassion in abundance helps the healing process.

Coddling provides psychological inoculation against future trauma.

Dwelling on past transgressions distracts from present awareness of very real in-the-moment threats and predators.

It may be less accurate than a lodestone in the hands of someone untrained in radiesthesia, but I've found that playing against the strategies imbued within it ensures a losing game.

When you have a moral obligation, use your moral compass to find the moral high ground, moral authority to take the moral high ground, and moral support to keep the moral high ground. This works in an ethical dilemma too.

There are many moral compasses out there:
Let your conscience be your guide; follow your heart; go with God.

We, any, may have found ourselves lacking conscience, having lost our heart, feeling abandoned by our God, lost faith in our God, or never had a God to begin with.

The following moral compass is pretty simple.



PAGE

COMPASSION & STABILITY

CHAPTER ONE

THIS IS A TREAT
FOR ME TO
SHARE.

WIN-WIN
ALWAYS GIVE THE PERSON
OPPOSITE YOU THE CHANCE TO WIN
WITH YOU, AND NOT AGAINST YOU.

NORTH

LEFT
GENEROUS

BE GENEROUS, FOR
THE LEFT EYE SEES
THE AESTHETIC
AND
NOT THE LOGIC.

RIGHT
CONTRITE

BE CONTRITE, FOR
THE RIGHT EYE
SEES LOGIC AND
NOT AESTHETICS.

HOW
ABOUT
THAT?

AXELROD'S WORK ALREADY STARTS WITH ETHICS & BIOMATHEMATICS BUT
GENEROUS & CONTRITE ESS WERE ARRIVED AT HEURISTICALLY;
ENCOMPASSED WITH ETHICAL PRINCIPLES OF COMPASSION, WIN-WIN &
GOLDEN RULE, THEY REMINDED ME OF THE POLITICAL COMPASS*, POLITICAL
LEFT, RIGHT, NORTH & SOUTH.

AS I BEGAN TO FILL IN THE BLANKS, OTHER RELATIONSHIPS
BECAME CLEAR.

DISCLAIMER: TO THOSE WHO ALREADY HAVE A CONSCIENCE &
DON'T NEED THIS MORAL COMPASS FOR THEMSELVES, IF THIS
STUFF COMES EASILY TO YOU, PLEASE DON'T GET BORED: RATHER,
ENJOY; THERE ARE EXERCISES IN THE BACK WHERE YOU TOO CAN
TAKE A MOMENT TO FILL IN THE BLANKS. WE MAY ALL BENEFIT
FROM YOUR INPUT & AS A WORK OF COPYLEFT CREATIVE
COMMONS, THIS BOOK GRANTS YOU DISCRETIONARY LICENSE.

PAGE

*politicalcompass.org



I STARTED WITH A SIMPLE PREMISE,
HOW TO DESIGN A MORAL COMPASS
FROM SCRATCH,

A MORAL COMPASS FOR THOSE
WHO HAVE NONE,
A SIMPLE MORAL COMPASS
THAT ANYONE CAN USE,

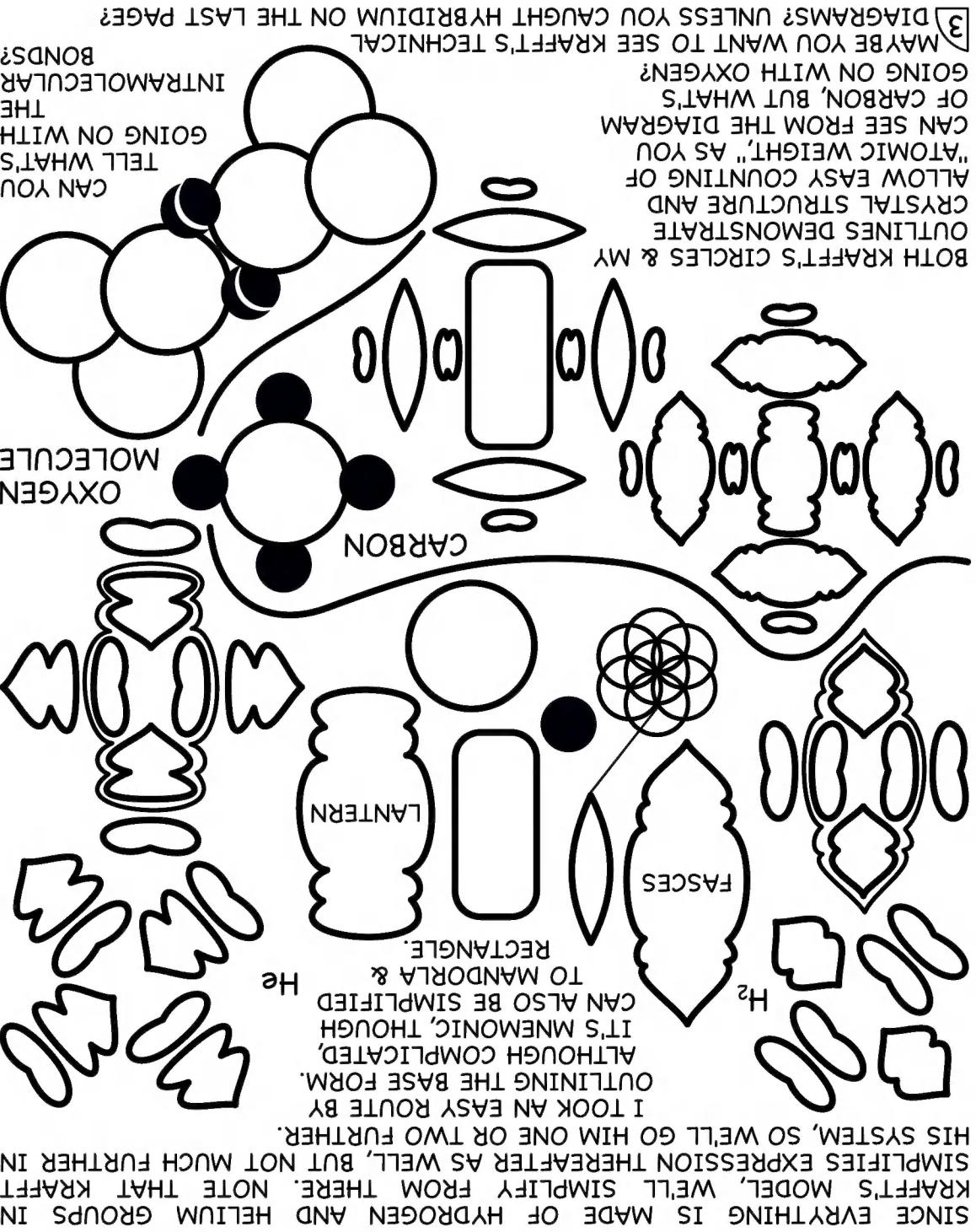
EVEN THOSE LACKING
CONSCIENCE.
THE CONCEPT CAME
NATURALLY.

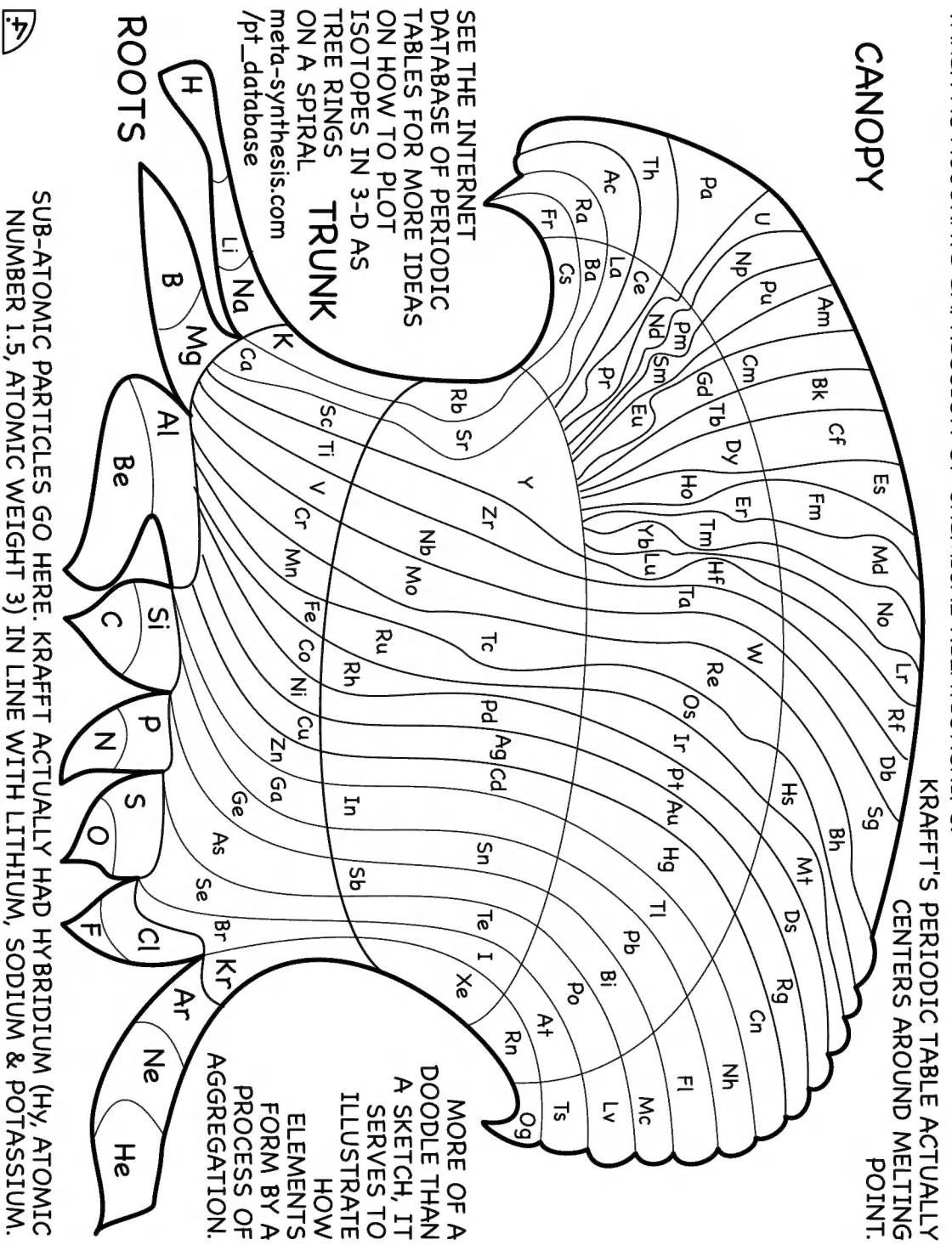
DRAW A COMPASS.
TRULY, I WAS GRASPING
FOR SOMETHING I DIDN'T
KNOW.

EVENTUALLY, I TOOK THE
BASIC CONCEPTS WIN-WIN
& GOLDEN RULE AT NORTH &
SOUTH, & ROBERT AXELROD'S ESS
CONTENDERS, GENEROUS & CONTRITE
STRATEGIES AT LEFT & RIGHT.



PAGE





THIS IS A CONCEPT SKETCH, THE PERIODIC TABLE AS A BRANCHING TREE, NOT TO BE TAKEN AS ACCURATE EXPRESSION OF CHEMICAL RELATIONSHIPS.

KRAFFT'S PERIODIC TABLE ACTUALLY
CENTERS AROUND MELTING POINT

COMPASSION & STABILITY

PROJECT CHAPTER ONE

NOW WE'RE FILLING IN THE
BLANKS.

WHAT IS A TYPE OF
WINNING CONTRITION?
I PICKED HONOR.
THERE IS ROOM AT THE
END OF THE BOOK FOR
YOU TO TRY OTHER
ANSWERS & SEE GEN
HOW THEY FIT.

AT THIS POINT, ANSWERS ARE STILL ARBITRARY: WE LOOK FOR RELATIONSHIPS & FIND CONCEPTS THAT MATCH.
IS GRATITUDE A WINNING GENEROSITY?

HARMONY & RESTITUTION, I HAD BEEN
CONSIDERING AS ORIGIN OF PAIRED,
ANTAGONISTIC OPPOSITES WITH COMMON FUNCTIONING PRINCIPLE,*
GOING BACK TO GEORGE ORWELL'S 1984: WAR & PEACE SHARE IDENTITY IN
THE CONCEPT OF LOVE; WE WAR FOR LOVE, MAKE PEACE FOR LOVE, BUT
PEACE ISN'T HARMONY, & WAR ISN'T RESTITUTION. THERE IS MORE TRUTH IN
THE PHRASE, "MAKE LOVE, NOT WAR," THAN WE'RE TAUGHT. WE MIGHT AS
WELL SAY "MAKE LOVE, NOT PEACE." ATTUNEMENT & ATONEMENT, HARMONY
& RESTITUTION,
BOTH HAVE
PLACE INSIDE
LOVE, THOUGH
WAR & PEACE
MAY STEM
FROM IT.

GOLDEN RULE

WAR PEACE

THIS IS ALL PRETTY ABSTRACT STUFF,
YET SIMPLE IN COMPLEXITY, USING
NOT MANY ELEMENTS.

THIS IS ALL PRETTY ABSTRACT STUFF,
YET SIMPLE IN COMPLEXITY, USING
NOT MANY ELEMENTS.

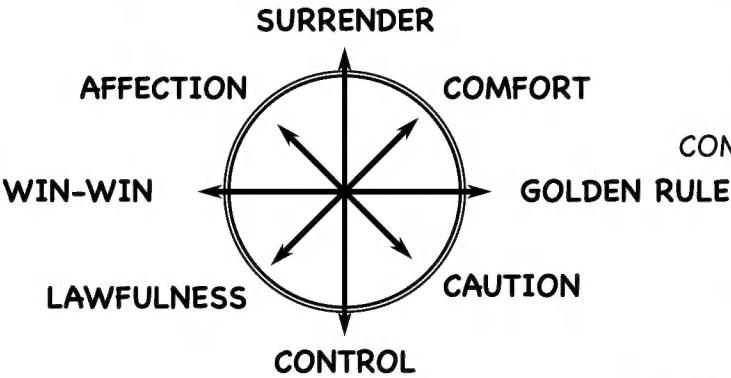
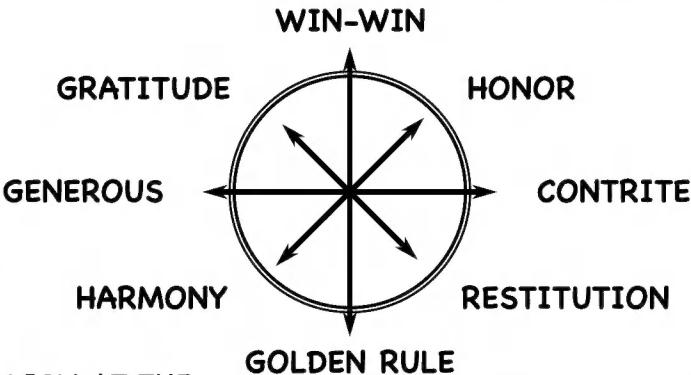
OUR NEXT CHAPTER, BY
ADDING ONE ELEMENT,
OPENS MANY NEW
BLANKS TO FILL, & WE
WILL FIND THE SAME
PATTERN RECURRING
IN FUTURE CHAPTERS.

PAGE

UNDERSTANDING

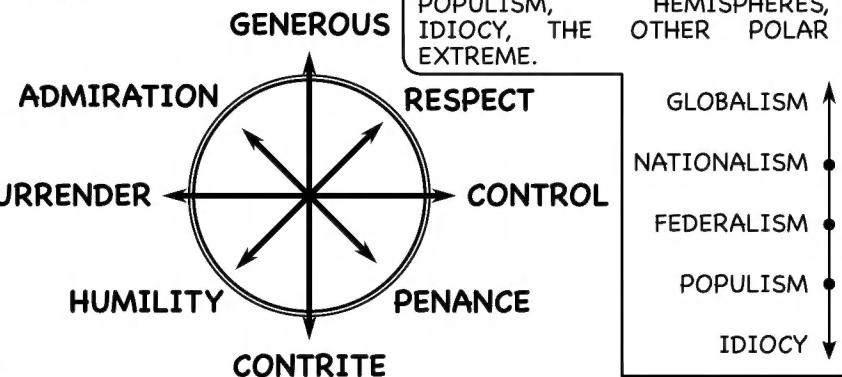
CHAPTER TWO

THINKING OF THE POLITICAL COMPASS, HOW SCHEMES WIN-WIN & GOLDEN RULE RESEMBLE AUTHORITARIAN NORTH & LIBERTARIAN SOUTH, GENEROUS & CONTRITE, LIBERAL LEFT & CONSERVATIVE RIGHT, I WENT BACK TO AN OLDER IDEA I'D HAD, OF ADDING A THIRD DIMENSION OF CENTRALIZATION, MAKING A POLITICAL GLOBE, WITH GLOBALISM AT ONE POLE, FEDERALISM AT THE OTHER, & NATIONALISM AT THE EQUATOR.* WHILE THE POLITICAL COMPASS USES SOCIAL & FISCAL DIMENSIONS, I USE MORALISTIC DIMENSIONS HERE, COMPASSION, STABILITY, UNDERSTANDING.



AS YOU CAN SEE, ADDING ONE DIMENSION OPENS EIGHT NEW BLANKS TO FILL IN; THE ADDITION OF ONE SIMPLE ELEMENT CREATES GREATER COMPLEXITY AND NEW ELEMENTS. WE WILL OBSERVE THIS PHENOMENON AGAIN IN THE FOLLOWING CHAPTERS.

*I'VE SINCE EXTENDED THE POLES, MAKING FEDERALISM THE EQUATOR, NATIONALISM & POPULISM, HEMISPHERES, IDIACY, THE OTHER POLAR EXTREME.



Tesla

- Expelled from college 1870s for suggesting radical ideas
- Demonstrated longitudinal waves 1880s, disproving Hertz and further demonstrating a dynamic ether beyond Michelson Morley
- Researched the Akasha 1920s

Functional Cosmic Orgone

Mystico-Mechanical Medium

Karma Qi Prana

Dharma Ether Akasha

Mechanico-Mystical Energy

This list is so abridged, it doesn't even include Heaviside's Quaternion Equations, even Transformations of Maxwell's Quaternion Ether

Tesla in the Ether Timeline

1856 1860s 1890s 1900s -- 1920s 1920s -- 1930s 1943 1949

Stationary Quaternion Ether

Maxwell Kelvin Hydro-Dynamic Ether

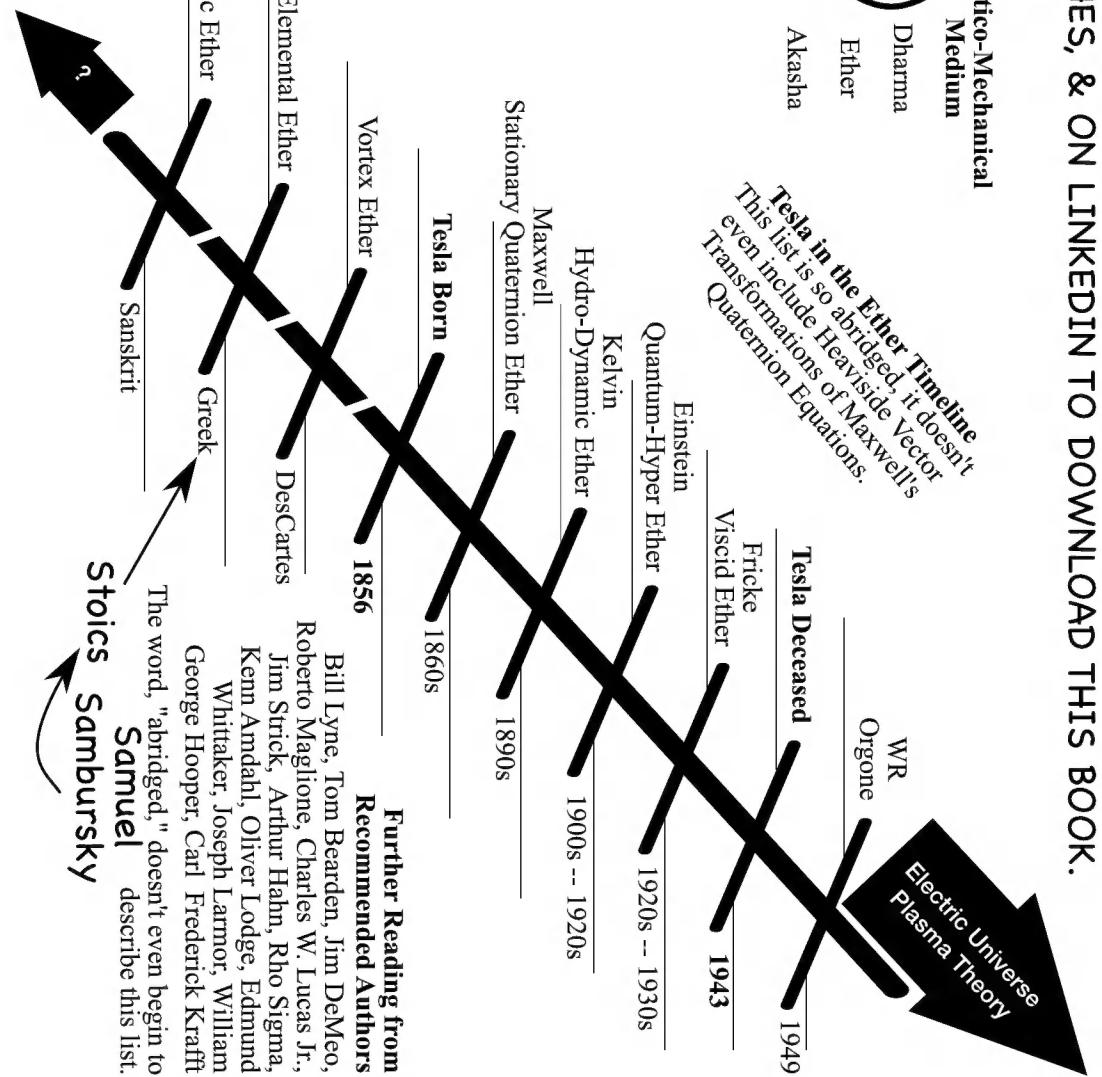
Einstein Quantum-Hyper Ether

Fricke Viscid Ether

Viscid Ether

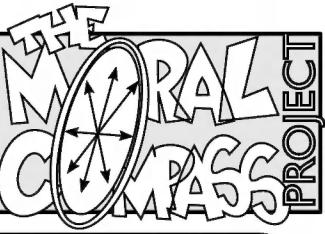
Electric Universe Plasma Theory

WR Orgone



ABOUT THE AUTHOR(S)

(YOUR NAME HERE)



EDMOND MAURICE PEYROUX TOLERATES BEING CALLED "MOE" BUT PREFERS "NED" & ASKS THAT PEOPLE CALLING HIM "EDMOND" RATHER CALL HIM "EDMOND MAURICE"; HAS BEEN PUBLISHING COMIX FROM PHOTOCOPY MACHINES AROUND THE WESTERN HEMISPHERE SINCE HE WAS 17 YEARS OLD IN 1994; HAS WRITTEN OTHER BOOKS & OTHER NON-FICTION, BUT THIS IS HIS FIRST NON-FICTION BOOK; ALSO WRITES FICTION, MOSTLY SATIRE, USING THE PEN NAME, ALIAS: ORSON NED, CARTOONIST @ LARGE. NANOO, NANOO.

SCOTT MYERS, SEE INDEX.

ONE OF NED'S BUDDIES, WHO CHOOSES ANONYMITY, SUGGESTED THAT NED MUST BE VERY PROUD OF WRITING THIS BOOK, HE ASKED, "PROUD? [FROM] THE SEVEN DEADLY SINS? ME? ... IT'S STILL IN ITS FIRST ROUGH DRAFT BUT IT POINTS DIRECTLY TO BEING MEEK AND HUMBLE AS EVOLUTIONARILY STABLE STRATEGY. IF YOU CAN FIND A PLACE FOR PRIDE ... PLEASE SCRIBBLE IT IN AND SHOW ME, MAYBE IN ANOTHER DIMENSION? MAYBE IT'S BEING GENEROUS IN A DIMENSION OF VALUE, MORE OR LESS, ... NEAR THE MORE POLE? VALUE IS AN INTEGRAL CONCEPT IN ETHICS. GOOD CALL." SHE RESPONDED, "YES. THAT'S IT."

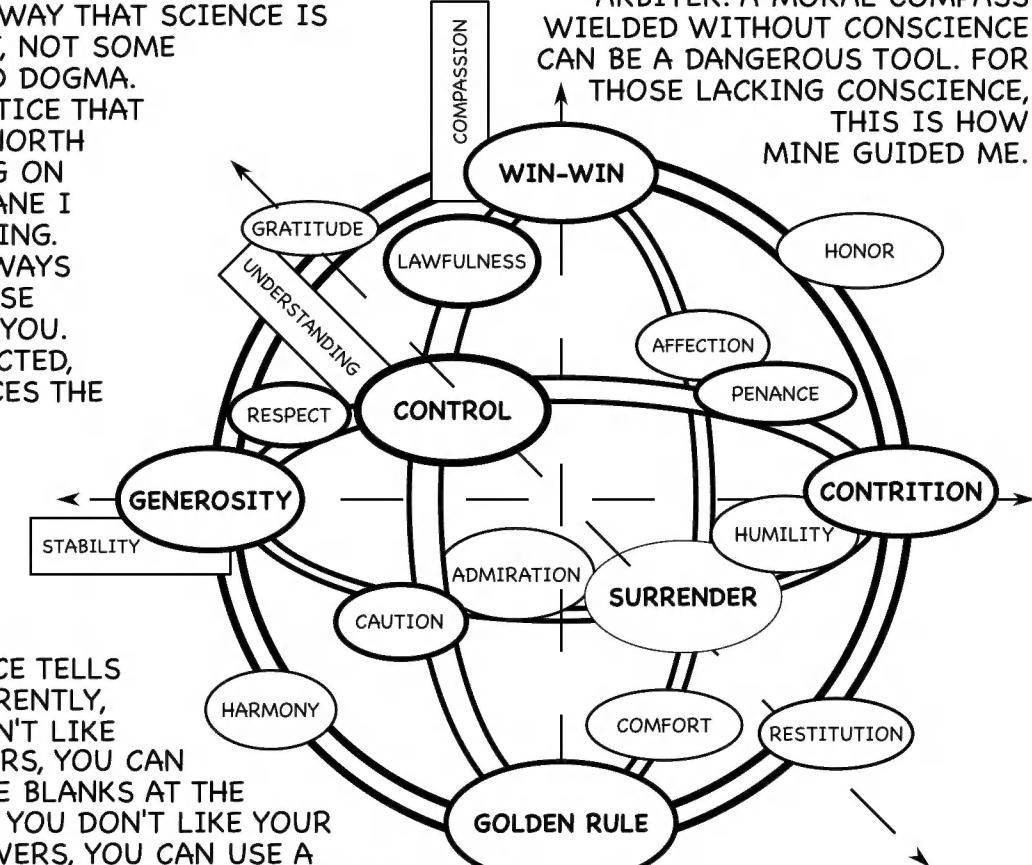
TELL US MORE ABOUT YOURSELF; USE AN EXTRA SHEET OF PAPER IF NECESSARY:

UNDERSTANDING

CHAPTER TWO

MORALITY IS AN ASPIRATION IN THE SAME WAY THAT SCIENCE IS A PURSUIT, NOT SOME PROFESSED DOGMA. YOU'LL NOTICE THAT I MOVED NORTH DEPENDING ON WHICH PLANE I WAS SOLVING. NORTH ALWAYS FACES THOSE OPPOSITE YOU. HERE DEPICTED, SOUTH FACES THE VIEWER.

WHY? MY CONSCIENCE WAS THE ARBITER. A MORAL COMPASS WIELDED WITHOUT CONSCIENCE CAN BE A DANGEROUS TOOL. FOR THOSE LACKING CONSCIENCE, THIS IS HOW MINE GUIDED ME.

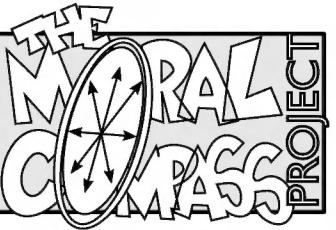


IF YOUR CONSCIENCE TELLS YOU DIFFERENTLY, IF YOU DON'T LIKE MY ANSWERS, YOU CAN FILL IN THE BLANKS AT THE BACK, & IF YOU DON'T LIKE YOUR OWN ANSWERS, YOU CAN USE A PENCIL, ERASE & DO-OVER. I'VE CHANGED MY ANSWERS PLENTY. YOU CAN ALSO JUST CROSS MINE OUT AND WRITE WHEREVER.

THE IDEA IS TO KEEP YOURSELF IN CHECK: OFFER THE WIN-WIN, BUT LIVE BY THE GOLDEN RULE (DON'T PREACH IT TO OTHERS.); SHOW YOUR SURRENDER BUT MAINTAIN YOUR SELF-CONTROL; SHOW YOUR GENEROSITY BUT WHERE CONTRITION IS CONCERNED, SHOW YOUR HONOR & HUMILITY BEFORE YOU HAVE TO PAY PENANCE OR MAKE RESTITUTION. ANOTHER ELEMENT OF THE COMPASS IS THE BOUNDARY: DON'T BE TOO CONTRITE OR TOO GENEROUS; KNOW YOUR LIMITS.



CHAPTER THREE

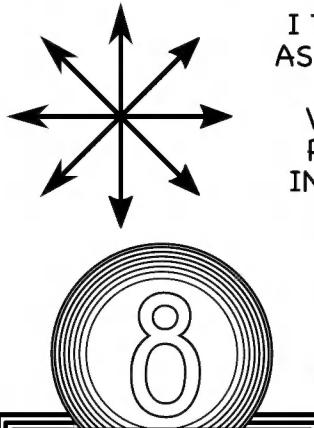


I ASKED MY FRIEND SCOTT, WHO WORKED WITH BUCKY FULLER & HAS LECTURED ON HIS LIFE & WORKS, TO WRITE A COUPLE OF PARAGRAPHS ON TENSEGRITY. HE WROTE BACK:

"..."
"..."
"..."
"..."
"..."
SCOTT MYERS, "ALL WRITES PRESERVED"

YOU GET WHAT YOU PAY FOR, AND IN FUTURE EDITIONS, I WILL SEE IF A "SEND CHECKS PAYABLE TO SCOTT" BLANK CAN BE FILLED IN. IN THE MEANTIME, I HAVE A FEW WORDS OF MY OWN TO SHARE ABOUT TENSEGRITY & WITH ANY LUCK, SCOTT, OR BETTER YET, ONE OF YOU READERS WILL CORRECT ME.

BEFORE I DO, I'D LIKE TO REVISIT MY EARLY MISTAKES, TO SHARE HOW I LEARNED FROM THEM. I STARTED WITH NEITHER AN AXIS OF COMPASSION NOR OF STABILITY, ONLY THE IMAGE OF A COMPASS, & BLANKS TO FILL.



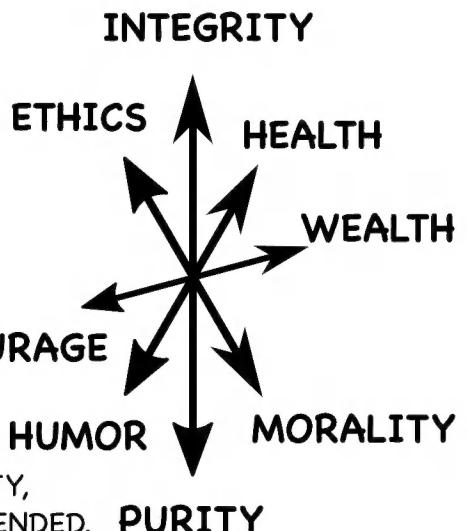
PAGE

I TRIED CLASSIC CONCEPTS AS DESIGN MOTIF, ETHICS & INTEGRITY, HEALTH & WEALTH, BUT DIDN'T SEE A PRACTICAL USE FOR THEM IN A BEGINNER'S COMPASS.

UNTIL I MIXED ESS WITH ETHICAL STRATEGY, I WAS JUST PLAYING & EVEN THEN, IT'S STILL PLAY.

SO,
RATHER THAN DISCARD THEM,

I KEPT THEM AS NOVELTY,
THE DESIGN MOTIF I INTENDED.



GLOSSARY BIBLIOGRAPHY & REQUIRED READING

MANY OF THE BEST REFERENCE BOOKS HAVE GLOSSARIES, SO THE AUTHOR-EDITOR HAS DECIDED TO RECOMMEND A BIBLIOGRAPHY OF GLOSSARIES, RATHER, DICTIONARIES OF USAGE & ETYMOLOGY, & LET THE READER FILL IN THE BLANKS. A CONVENTIONAL GLOSSARY MAY BE REQUIRED FOR A FIRST EDITION, BUT WHILE WE'RE STILL IN EARLY DRAFTING STAGES, THIS IS YOUR WELCOME TO COPYLEFT & CREATIVE COMMONS.

ALSO, A LOT OF THIS MAY GO RIGHT OVER YOUR HEAD EVEN IF MUCH ELSE OF THIS COMES TO YOU NATURALLY, ESPECIALLY MATH JOKES THAT RELY ON FORMULA, BECAUSE THE FORMULA IS OBVIOUS ONLY TO ONE WHO KNOWS IT, THEREFORE SOME FURTHER READING MAY BE REQUIRED OF YOU IN ORDER TO MAKE MORE SENSE OF THIS WORK.

PLUS, SOME WORKS CITED WITHIN THE TEXT MAY BE MORE OBSCURE (ORGONOMETRY, e.g.) & HARD TO FIND WITHOUT DIRECTION FROM THE EDITOR.

WRITE IN THE NAMES OF BOOKS FROM THE TEXT THAT YOU WANT TO READ HERE & I'LL ADD A FEW THAT YOU WON'T FIND SO EASILY AT THE BOTTOM.

DICTIONARIES OF USAGE
PRINT

- FOWLER'S
- FOLLETT'S
- GARNER'S
- ONLINE
- WORDOLA.COM

DICTIONARIES OF
ETYMOLOGY
PRINT

- OXFORD
- ONLINE
- ETYMONLINE.COM



PAGE

INDEX NOTES

& WHY THEY'RE INCORPORATED

& WHY THEY'RE OUT OF ORDER FOR THAT MATTER, TO PREPARE THE READER FOR THE NEXT PAGE, & THE PROJECT OF RECONSTRUCTING YOUR OWN MORAL COMPASS TO SHARE, WE LEAVE PLENTY OF FILL-IN-THE-BLANK DO-OVER SPACE HERE AT THE END, AS PROMISED. INDICES & NOTES ARE A GREAT TOOL OF REFERENCE BUT RARELY DO YOU FIND THEM IN A ROUGH DRAFT, SO, ENJOY!.

I'LL GET YOU STARTED BUILDING THE INDEX & YOU CAN ALSO COPY NOTES FROM THE DIFFERENT PAGES THROUGHOUT THE BOOK THAT HAD NOTES (MARKED BY ASTERISKS AND SMALLER TEXT FONTS, ETC.).

sanitation p. 14

Piesk, Tilman
see Watchduck

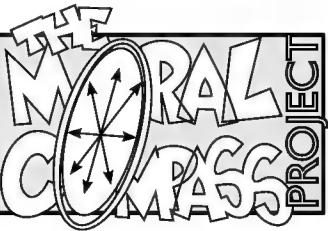
dogma p. 7

forgiveness pp.
2, 3, 14, 23

Myers, Scott
Pages 8 & 16

Watchduck
Pages 13 & 21

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PAGE



TENSEGRITY

CHAPTER THREE

UNTIL ANYONE CORRECTS ME, LET'S PLAY PRETEND THAT MY WORDS ABOUT TENSEGRITY BEAR MERIT. RETRODUCTIVE REASONING REQUIRES SUSPENDED JUDGEMENT.

BY INTRODUCING HIS CONCEPT OF TENSION-INTEGRITY (TENSEGRITY), BUCKY FULLER DEMONSTRATED FOUR DIMENSIONS OF TENSEGRITY OBLIQUE TO THE THREE PERPENDICULAR DIMENSIONS WE KNOW COMMONLY.

BASICALLY, WE'RE LOOKING AT THE FOUR DIAGONALS OF A CUBE, BUT I WAS REMINDED OF THEM LOOKING AT THE EMPTY SPACES ON THE MORAL SPHERE OF THE PREVIOUS CHAPTER.

TENSEGRITY IS A CONCEPT USED IN STRUCTURAL ENGINEERING, APPLIED MATH BEFORE ABSTRACT MATH, YET HERE IS A CHANCE TO TEST THE CONCEPT IN THE MOST ABSTRACT SENSE.

HERE'S THE WORD ABOUT TENSEGRITY THAT I POSIT, BUT CAN'T PROVE, SO I WON'T SPEND TOO MUCH SPACE ON IT, YET WE'LL FIND USE IN THE CONCEPT LATER, UNTIL IT IS DISPROVEN.

IN TERMS OF A SPACE, WE THINK OF A MATHEMATICAL POINT AS OCCUPYING THE LEAST, BUT FOR STRUCTURAL ENGINEERING, WE'RE GOING TO USE A KNOT.

LET'S PLAY PRETEND.



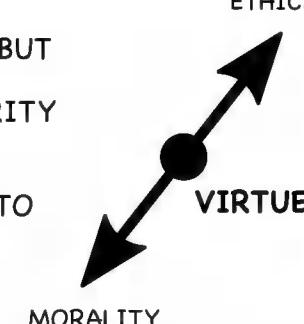
VIRTUE

ARBITRARILY, WE'LL CALL THE POINT, OR KNOT, VIRTUE.



THE POINT HAS ZERO DIMENSIONS OF SPACE BUT THE KNOT NEEDS A DIMENSION OF TENSEGRITY TO HOLD IT TOGETHER. THE DIMENSIONS OF TENSEGRITY REQUIRED TO SUPPORT A SPACE OF n DIMENSIONS ARE $n+1$.

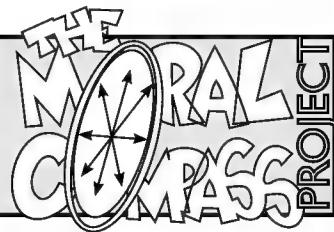
THAT'S THE GIMMICK.



9
PAGE

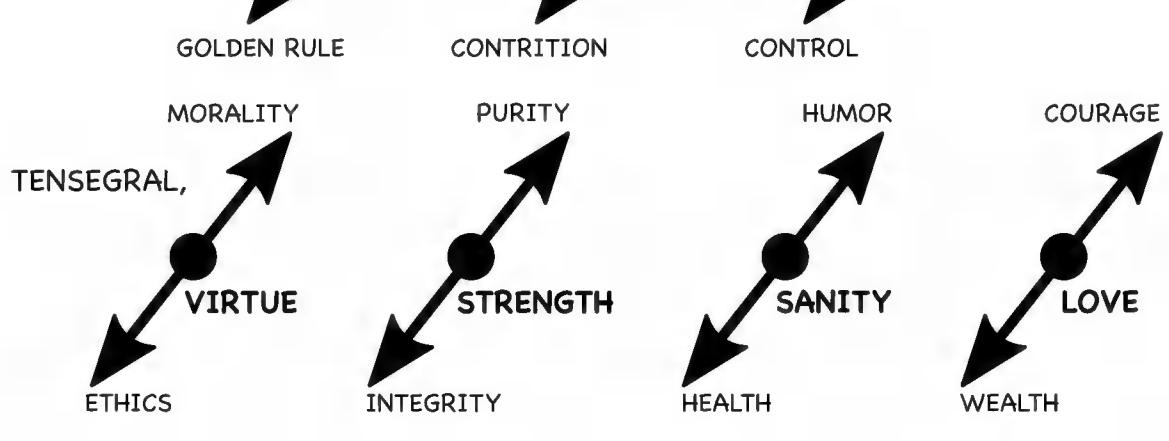
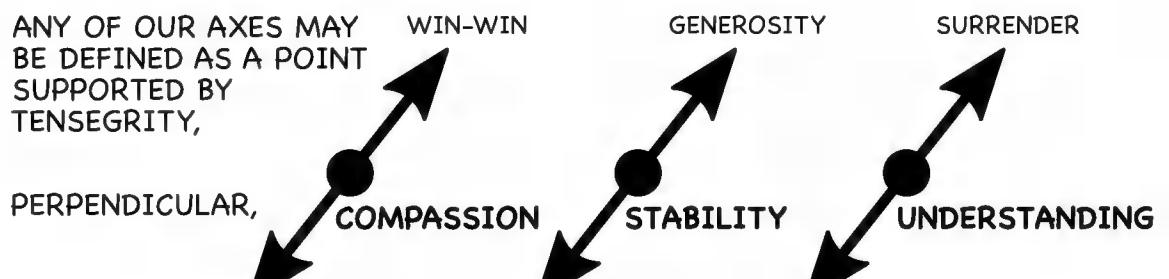
TENSEGRITY

CHAPTER THREE

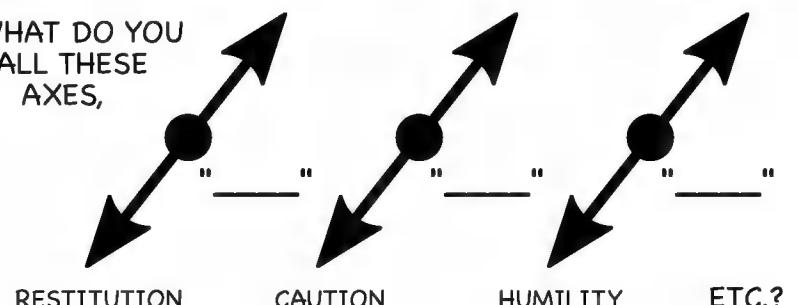


AT THIS POINT, WE CAN STOP CALLING THEM DIMENSIONS & START CALLING THEM AXES, IF THAT HELPS TO SIMPLIFY. IT CERTAINLY SAVES ME TYPING. THE WORD "DIMENSION" IS JUST ANOTHER FANCY WORD FOR "MEASURE." THE WORD "AXIS" GIVES US THE NOTION OF SUPPORTING SOMETHING DYNAMIC.

ANY OF OUR AXES MAY BE DEFINED AS A POINT SUPPORTED BY TENSEGRITY,



& WHAT DO YOU CALL THESE AXES,



APPENDIX

ON BRADSHAW & THE LAW

AN EASY EXAMPLE OF DIFFERENCE BETWEEN LAW & ETHICS, & VICE VERSA, IS IN THE CONCEPT OF FRAUD: IN LAW, FRAUD IMPLIES WILLFUL INTENT TO DECEIVE, BUT IN ETHICS, IT'S MERELY LACK OF FULLY INFORMED CONSENT; LIKEWISE, LEGAL CONSENT IS OFTEN NOT ETHICAL CONSENT, AS STANDARDS VARY. WHY DO WE NEED ETHICS WHEN WE HAVE LAWS? ETHICS OFTEN HAVE HIGHER STANDARDS OF INTEGRITY THAN LAWS: THEY'RE HARDER TO MEET, & THERE'S NO LEGAL COMPELSION, SO WHY BOTHER? I'LL LET BRADSHAW (WITH HELP FROM FELICITY DE ZULUETA) ANSWER:

"Abuse, neglect, and traumatic attachment lead to a loss of ability to regulate intense feelings, producing asocial behaviors."

WE LIVE IN THIS WORLD. WHEN LAW FAILS, WE NEED ETHICS. WHY DO PIZZA DELIVERIES ARRIVE FASTER 9-1-1 RESPONDERS? PEOPLE PAY FOR DELIVERY; THEY SHOOT AT POLICES?

BRADSHAW TELLS US:

...BUT NOT BY AXELROD'S DEFINITION. IT'S LESS OF A CASE OF FORGIVENESS BEING MORE A LIABILITY, & MORE A REMINDER: DON'T PLAY WITH CHEATERS; TAKE YOUR MARBLES & GO HOME.

THERE ARE ONLY THREE LAWS OF ETHICS:

3. DON'T LIE.
 2. DON'T STEAL.
 1. DON'T HARM.
- THIS IS ANCIENT WISDOM HANDED DOWN. YOU CAN LOOK UP FINER DETAIL, BUT ABRIDGED LAWS ARE CLEAR ENOUGH FOR THIS VOLUME.

"Evolutionary theory predicts that the extensive hostility and persistent threat that humanity poses today may render prosociality and forgiveness more of a liability than an advantage. Social considerations may lose their utility and meaning in societies that are broken up, under chronic stress and threat."

IN BRADSHAW'S OWN WORDS,

"Neuropsychologists maintain that prosocial, forgiving behavior has evolutionary advantages for highly social species..."

AND,

"Forgiveness, in its broadest definition, represents a pledge to the future."

RATHER, WE'LL END WITH BRADSHAW'S UNABRIDGED STEPS OF FORGIVENESS:

Forgiveness requires three steps, each of which presupposes a sense of self. First the injured party must perceive a transgression against himself. Second, the party who has sustained injury must recognize a preexisting relationship with the transgressor. Third, the injured party must initiate a process of self-repair, a perceptual, emotional, and behavioral readjustment rendered through the medium of the relationship.



PAGE

AFTERWORD

& ACKNOWLEDGEMENTS

AFTER READING ALL THIS, ONE MIGHT ASK, WHERE DO YOU COME UP WITH ALL THIS STUFF?? NORMALLY ONE EXPECTS TO READ ACKNOWLEDGEMENTS AT THE FRONT OF THE BOOK, BUT THERE WAS NO SPACE IN THIS PRESENT VOLUME.

LEAVE IT TO SAY THAT NON-FICTION COMIX & SELF-PUBLISHED COMIX HAD THEIR HEYDAY SOME TWENTY TO THIRTY YEARS AGO, AND AS SUCH, AMONG THE TRENDSETTERS WHO CREATED THE NICHE THAT THIS BOOK FILLS, COME FIRST SCOTT MCCLOUD & DAVE SIM, & BEFORE THEM, WILL EISNER.

AS FOR COPYLEFT, THERE ARE TOO MANY TO NAME, & THE AUTHOR IS TOO IGNORANT OF THE HISTORY OF COPYLEFT TO BEGIN.

I ALREADY MENTIONED EDWARD TUFTE ONCE, BUT LIKE BRADSHAW & AXELROD, HE'S WORTH REVISITING.

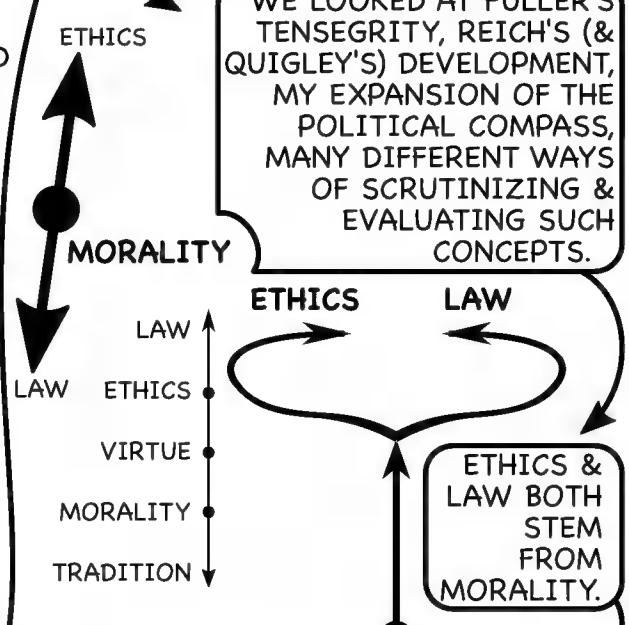
THE BIBLIOGRAPHY WILL NEITHER BE WHAT ONE MIGHT EXPECT, NOR THE GLOSSARY, NOTES, NOR INDEX.

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BUT THEY'RE NOT THE SAME. WE ARRIVE AT THEM DIFFERENTLY & APPLY THEM DIFFERENTLY, AS WE'LL NOTE BRIEFLY IN THE APPENDIX.

AT THE OPPOSITE END OF THE SPECTRUM, ARE WRITERS ON ETHICS, MORALITY & LAW, JOHN C. MAXWELL, RICHARD A. WASSERSTROM, & MATHEMATICS FOR THE NON-MATHEMATICIAN, MORRIS KLINE.

WE LOOKED AT FULLER'S TENSEGRITY, REICH'S (& QUIGLEY'S) DEVELOPMENT, MY EXPANSION OF THE POLITICAL COMPASS, MANY DIFFERENT WAYS OF SCRUTINIZING & EVALUATING SUCH CONCEPTS.



OR MAYBE ETHICS & MORALITY STEM FROM VIRTUE, & LAW & TRADITION ARE MERELY EXTENSIONS. EITHER WAY, THE CONCEPTS HAVE TENSEGRITY, SHARE COMMONALITY IN DEVELOPMENT.

PAGE



TENSEGRITY

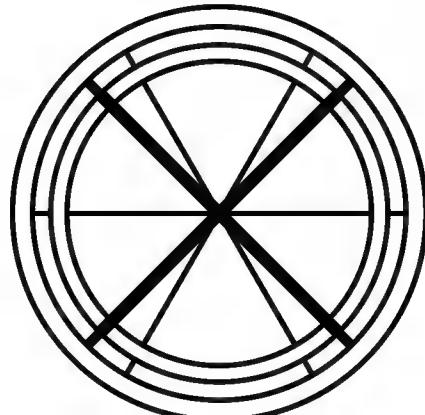
CHAPTER THREE

THE DIMENSIONS OF TENSEGRITY REQUIRED TO SUPPORT A SPACE OF n DIMENSIONS ARE $n+1$. THAT'S THE GIMMICK.

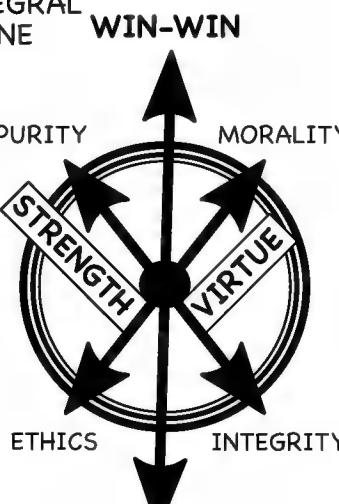
WE DEMONSTRATED FOUR TENSEGAL AXES OF 3-D SPACE ($n+1=4$), & ONE TENSEGAL AXIS OF ZERO DIMENSIONAL SPACE ($n+1=1$).

TRYING $n=1$ ($n+1=2$), IT LOOKS CUTE BUT MATHEMATICAL ELEGANCE REQUIRES EQUAL PARTS AESTHETICS AND ACCURACY. HOW ACCURATE AN EXPRESSION IS IT?

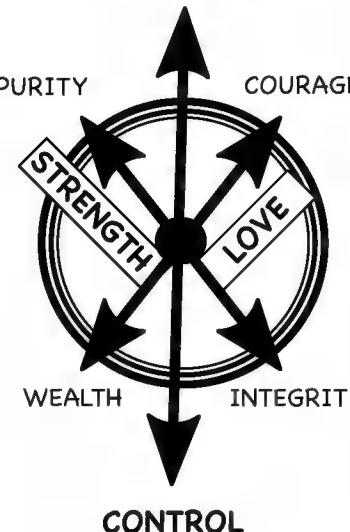
SOLVING $n=2$ ($n+1=3$), EXCEPT TO SHOW TENSEGRITY FALLING WITHIN THE SAME PLANE RATHER THAN OUTSIDE THE BOUNDS OF ITS SPATIAL DIMENSION, UNLIKE $n=0$ OR $n=1$, I LEAVE TO THE READER IN THE EXERCISE §.



A MODEL'S VALUE DERIVES FROM EASE & SUCCESS OF APPLICATION. I'LL KEEP THE MISTAKE, HOPEFULLY TO LEARN FROM IT LATER.



GOLDEN RULE
SURRENDER



AS WE'LL SEE ON THE FOLLOWING PAGE, ALL FOUR TENSEGAL AXES RUN OBLIQUE TO ANY ONE PERPENDICULAR AXIS. I PICKED THESE ARBITRARILY & WILL AMEND AFTER I REVIEW THE WORK.

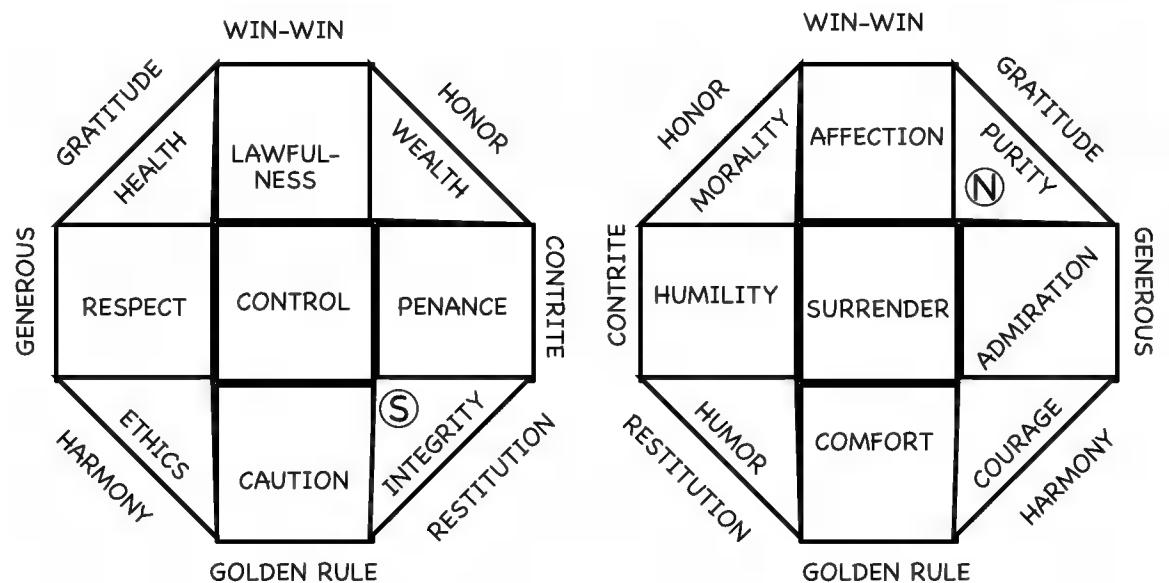
GENERAL

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TENSEGRITY

CHAPTER THREE

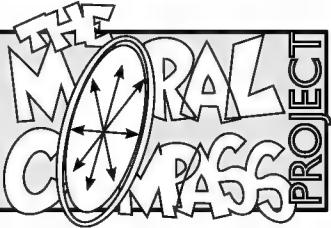
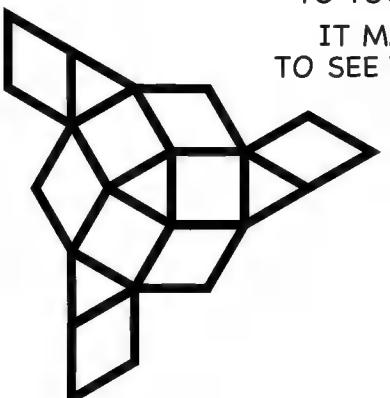
IN A EUREKA MOMENT, I FOUND THAT THE ARCHIMEDEAN SOLID, THE RHOMBICUBOCTAHEDRON, FIT ALL THUS DESIGNATED POINTS BETWEEN PERPENDICULAR & TENSEGRAL POLES, NOW NUMBERING 26 POLES, 13 AXES TOTAL.



RATHER THAN ATTEMPT FANCY PERSPECTIVE DRAWING, I'LL CONTINUE WITH STYLIZED DIAGRAMS THAT ARE EASIER FOR YOU, THE READER, TO DUPLICATE BY HAND, SHOULD YOU TO CHOOSE TO TAKE ANY OF THIS BACK TO YOUR OWN DRAWING BOARD

IT MAY BE MORE INTERESTING TO SEE WHAY CAN BE DONE WITH A 3-D PRINTER

ONCE MORE, SOUTH FACES YOU, & NORTH FACES THOSE OPPOSITE YOU. I COULDN'T THINK OF ANY "EASY RENDER" DIAGRAMATIC SCHEMA THAT CENTER ON INTEGRITY, SO YOU'LL HAVE TO FIGURE IT OUT.



CUT-OUTS

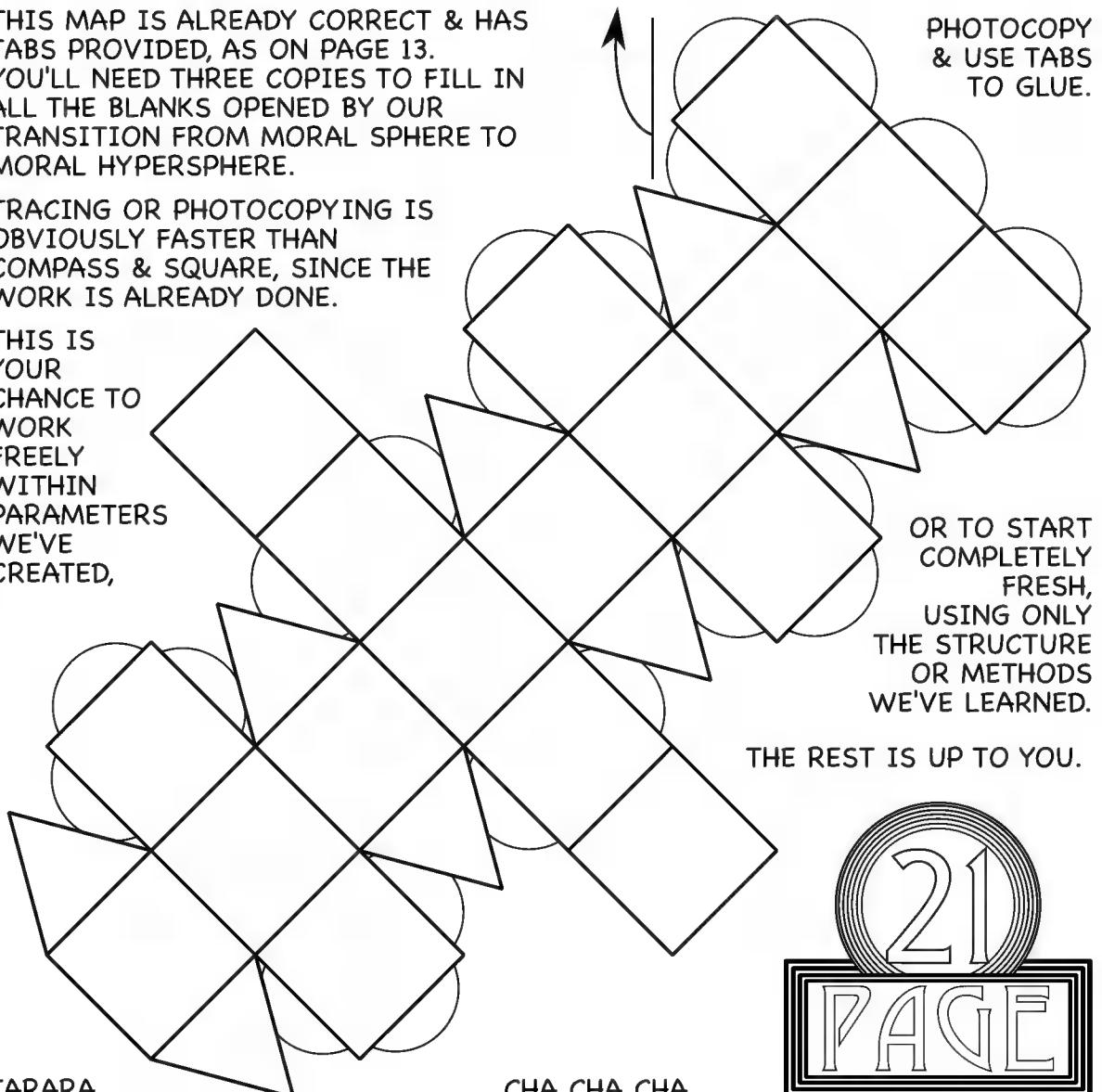
PLAYTIME!

By Watchduck (a.k.a. Tilman Piesk) - Own work, CC BY 4.0, <https://commons.wikimedia.org/w/index.php?curid=66804141>

THIS MAP IS ALREADY CORRECT & HAS TABS PROVIDED, AS ON PAGE 13. YOU'LL NEED THREE COPIES TO FILL IN ALL THE BLANKS OPENED BY OUR TRANSITION FROM MORAL SPHERE TO MORAL HYPERSPHERE.

TRACING OR PHOTOCOPYING IS OBVIOUSLY FASTER THAN COMPASS & SQUARE, SINCE THE WORK IS ALREADY DONE.

THIS IS YOUR CHANCE TO WORK FREELY WITHIN PARAMETERS WE'VE CREATED,



PHOTOCOPY & USE TABS TO GLUE.

OR TO START COMPLETELY FRESH, USING ONLY THE STRUCTURE OR METHODS WE'VE LEARNED.

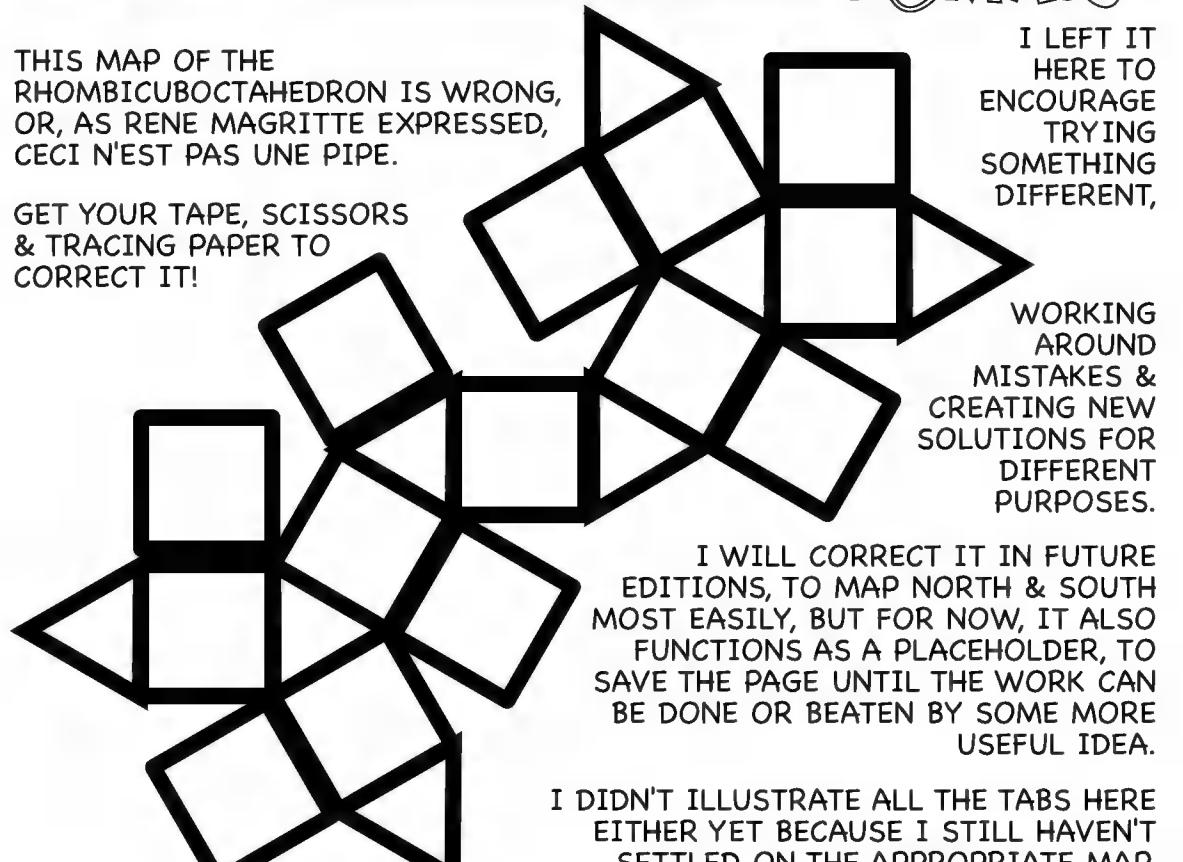
THE REST IS UP TO YOU.

CUT-OUTS

PLAYTIME

THIS MAP OF THE RHOMBICUBOCTAHEDRON IS WRONG, OR, AS RENE MAGRITTE EXPRESSED, CECI N'EST PAS UNE PIPE.

GET YOUR TAPE, SCISSORS & TRACING PAPER TO CORRECT IT!



IT'S QUITE FAST & EASY TO ADD TABS, BUT THERE'S NO SENSE DOING IT WRONG ON PURPOSE SO LONG AS ONE GETS THE IDEA & YOU CAN APPLY THE PRINCIPLE AT THE APPROPRIATE TIME.

REMEMBER TO PENCIL IN TABS, & WHERE YOU THINK EXTRA SQUARES MAY GO, BEFORE YOU START CUTTING. IF YOU WANT TO MAKE PLENTY OF EXTRA COPIES TO KEEP TRYING, PHARMACIES OFTEN HAVE THE MOST AFFORDABLE 5¢ & 10¢ PHOTOCOPIERS.

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THE MORAL COMPASS PROJECT

TENSEGRITY

PROJECT

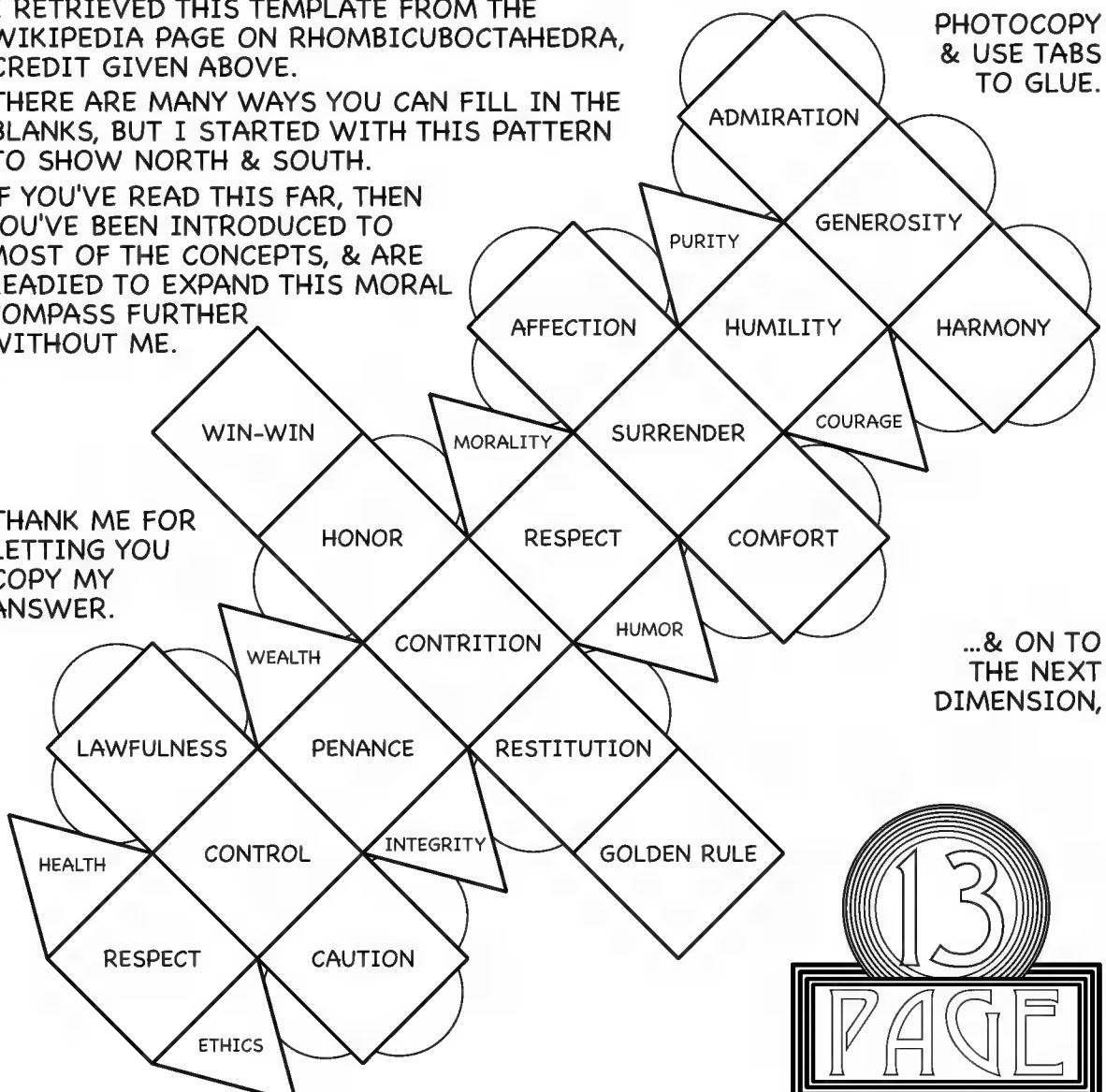
CHAPTER THREE

By Watchduck (a.k.a. Tilman Piesk) - Own work, CC BY 4.0, <https://commons.wikimedia.org/w/index.php?curid=66804141>

I RETRIEVED THIS TEMPLATE FROM THE WIKIPEDIA PAGE ON RHOMBICUBOCTAHEDRA, CREDIT GIVEN ABOVE.

THERE ARE MANY WAYS YOU CAN FILL IN THE BLANKS, BUT I STARTED WITH THIS PATTERN TO SHOW NORTH & SOUTH.

IF YOU'VE READ THIS FAR, THEN YOU'VE BEEN INTRODUCED TO MOST OF THE CONCEPTS, & ARE READIED TO EXPAND THIS MORAL COMPASS FURTHER WITHOUT ME.



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MORAL HYPERSPHERE

CHAPTER FOUR

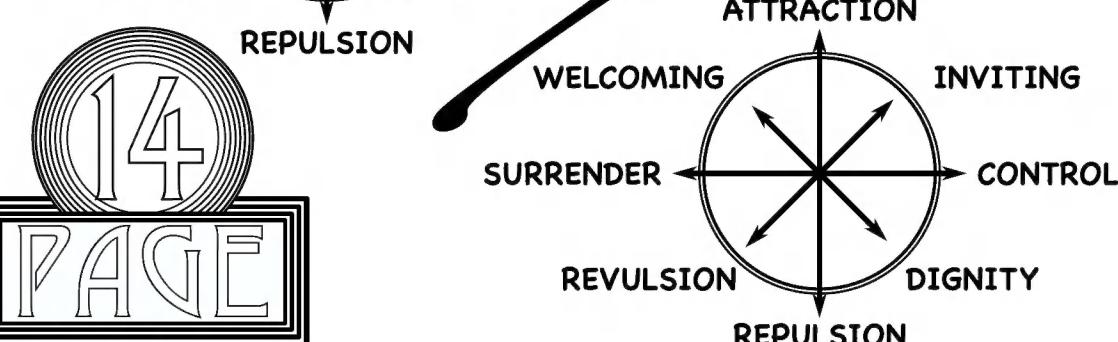
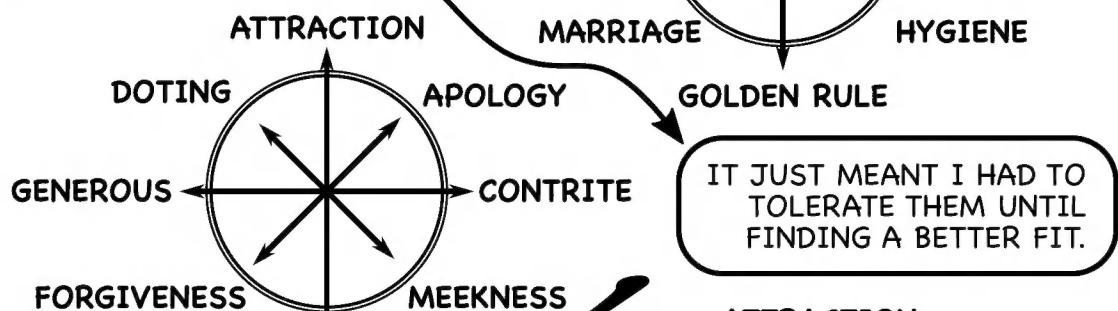
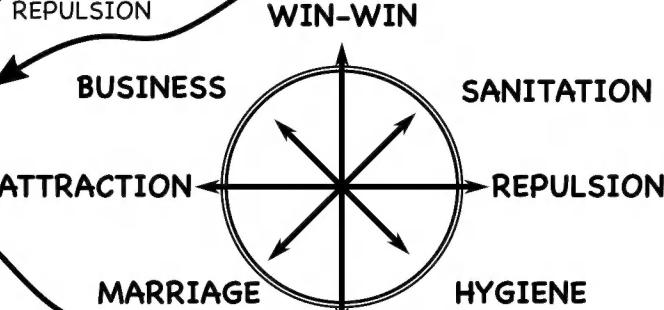
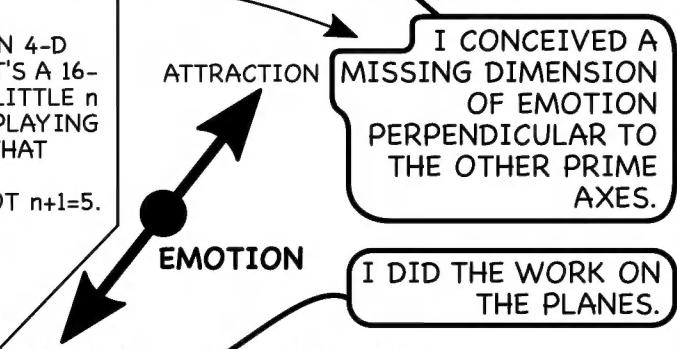


FACT CHECK: I LOOKED UP THE RHOMBICUBOCTAHEDRON ANALOG IN 4-D SPACE (RUNCINATED TESSERACT); IT'S A 16-CELL, NOT TEN, MEANING THAT MY LITTLE $n+1$ FORMULA DOESN'T WORK, EVEN PLAYING PRETEND, IN 4-D SPACE, MEANING THAT THERE ARE EIGHT DIMENSIONS OF TENSEGRITY IN A HYPERSPHERE, NOT $n+1=5$.

I WOULD POSIT THAT IN REALITY, THERE IS NO TENSEGRITY OUTSIDE OF 3-D SPACE AT ALL, BECAUSE ALL THIS OTHER SPATIAL GEOMETRY IS ABSTRACT WHEREAS TENSEGRITY IS A TANGIBLE CONCEPT, CONCRETE & PRAGMATIC.

I DIDN'T LIKE MY ANSWERS.

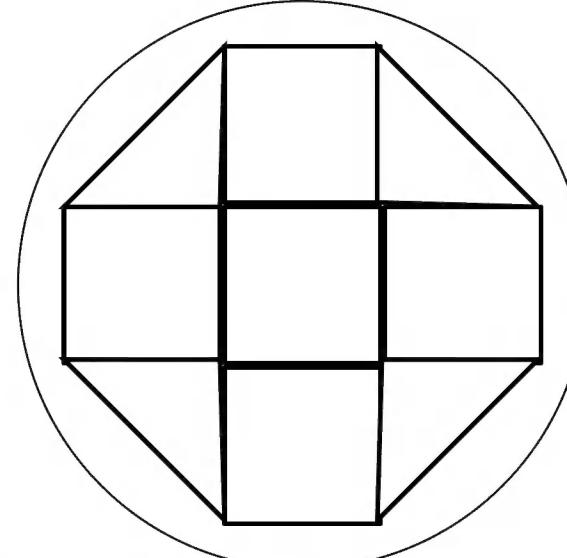
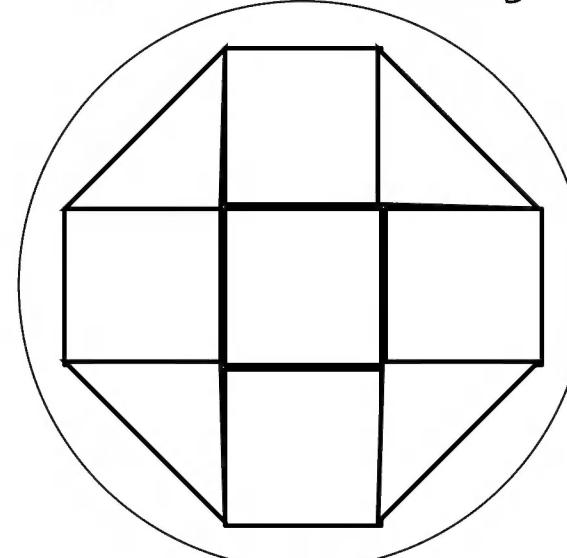
IT DIDN'T MAKE THEM RIGHT OR WRONG.



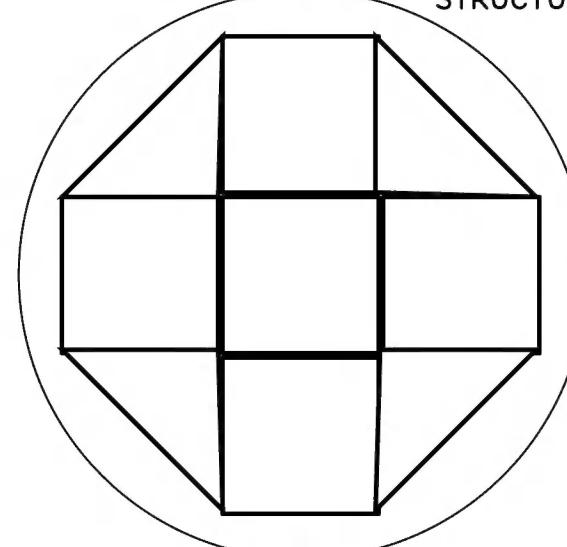
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EXERCISES

YOUR TURN



NOW THAT WE'VE DETERMINED WHAT TO CALL OUR AXES OF TENSEGRITY, & THEIR POLES, HOW DO WE ARRANGE THEM? REMEMBER, THE CONCEPT OF TENSEGRITY IS, WHEN YOU PUSH ON ONE AXIS, IT PULLS ON THE OTHER AXES. THUS, THEY SUPPORT THE STRUCTURE AS A WHOLE.



I DESIGNED THESE SCHEMA TO BE EASILY DUPLICATED BY HAND, BUT OBVIOUSLY, PHOTOCOPYING IS FASTER & EASIER FOR THOSE WITH THE MEANS, & NATURALLY, THIS ARTWORK WAS RENDERED WITH INKSCAPE FREEWARE.

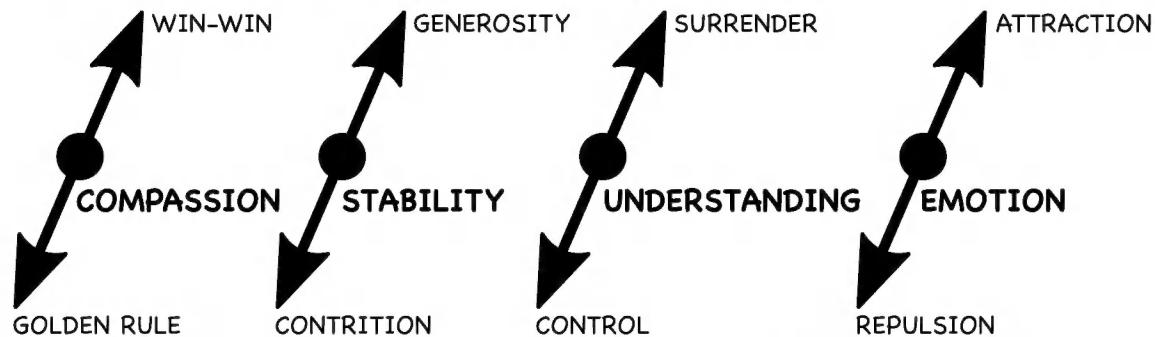
BEFORE YOU GO LOOKING INTO 3-D RENDERING SOFTWARE TO ACCOMMODATE 3-D PRINTING, I URGE YOU TO LOOK UP EDWARD TUFTE & VISUAL INFORMATION DESIGN.

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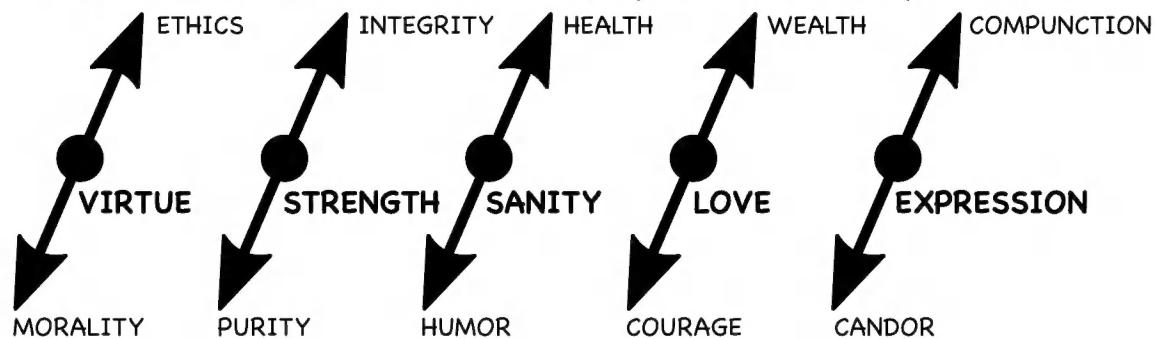
EXERCISES

YOUR TURN

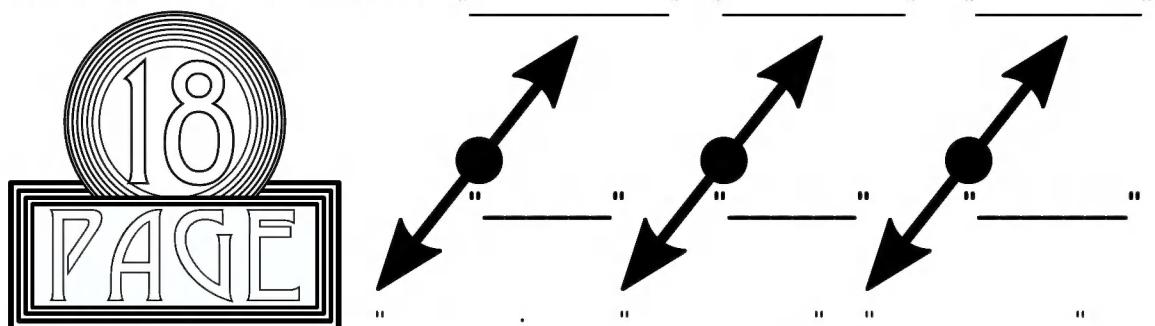
WE HAVE SOME UNSOLVED PUZZLES STILL. I'LL START WITH TENSEGRITY IN 4-SPACE. LET'S REVIEW. FOUR PERPENDICULAR AXES RUN OBLIQUE TO EIGHT TENSEGRAL AXES, DEFINING OUR BASIC MORAL HYPERSPHERE.



I'VE DEFINED FOUR OR FIVE OF THEM FOR THE READER, & SUGGESTED SEVERAL OTHERS, AS WELL AS DETERMINING FACTORS FOR BETTER FIT: PERPENDICULAR AXES ARE STRATEGIES, TENSEGRAL AXES, STANDARDS.



I LEAVE THE REST TO YOU. USE WHITE-OUT IF IT'S NEATER. " _____ " " _____ " " _____ "



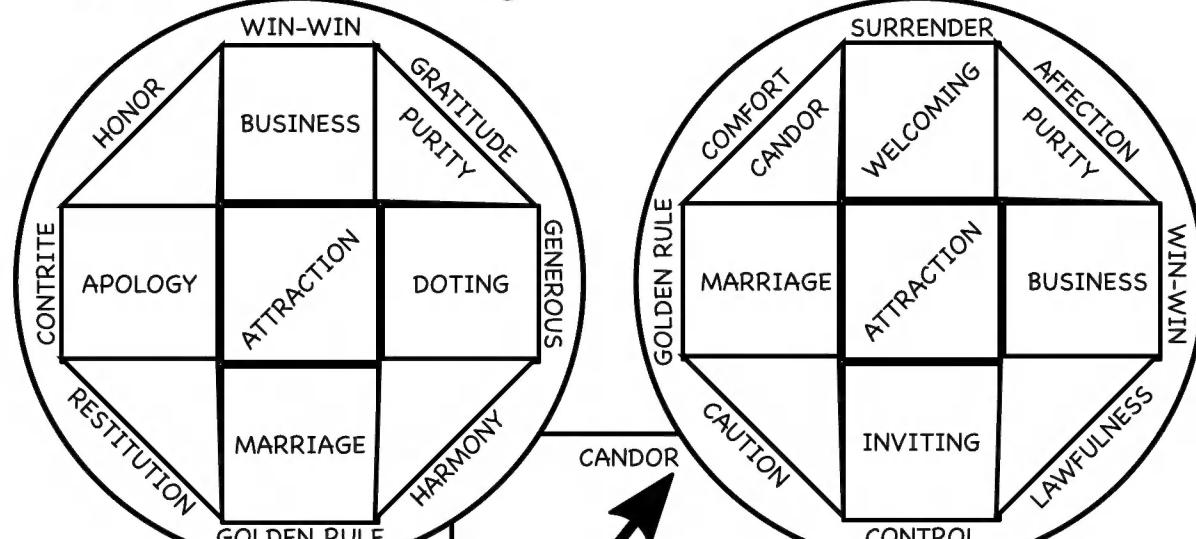
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**MORAL
COMPASS
PROJECT**

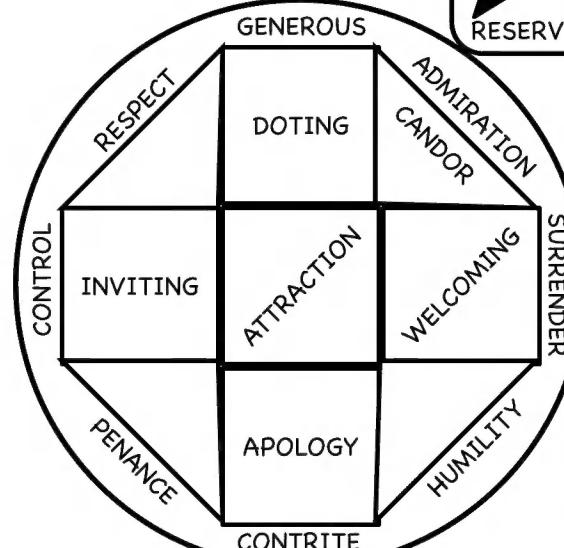
MORAL HYPERSPHERE

MORAL COMPASS PROJECT

CHAPTER FOUR



MAYBE WE CAN GET SOME POST-GRAD MATH INTERN WITH A HUMANITIES MINOR TO FIX THIS FOR US.



I GOT AS FAR AS EXPRESSION BEFORE I REALIZED I NEEDED THREE MORE DIMENSIONS OF TENSEGRITY. I LIST MORE MEASURES IN THE NEXT CHAPTER, BUT PLEASE FILL IN THE BLANKS & CORRECT ME.

WHERE'S LIBERTY,
EQUALITY,
FRATERNITY,
SOLIDARITY,
LOYALTY, METTLE?

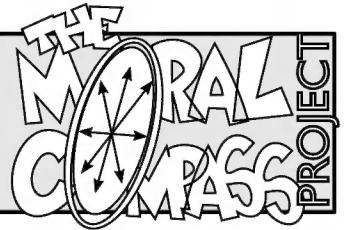
IF DISCRETION IS THE BETTER PART OF VALOR, WHAT'S THE BEST PART, DEMEANOR? ETC.

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MORE MEASURES

CHAPTER FIVE



HOW ABOUT A DIMENSION OF POTENCY (RATHER THAN POTENTIAL OR VOLTAGE, BUT NONTHELESS) DEFINED BY TENSION & PRESSURE, OR OWNERSHIP, BY PROPERTY & REPUBLIC?

SCOTT SUGGESTED A DIMENSION OF SOUL; I ASKED, WHAT ARE THE POLES, MIND & BODY, AURA & SOMA? & HOW DO THEY RELATE TO OTHER CONCEPTS, IN A DIMENSION OF RELATION, EQUALITY & INEQUALITY? SHOULD SOUL BE ONE POLE OF A DIMENSION OF ESSENCE, WITH SPIRIT AT AN OPPOSITE POLE? WHERE DOES ABSTRACTION BLEED INTO METAPHYSICS? I'M TRYING TO AVOID CONFUSION BY STAYING WITH THE KNOWN & AVOIDING THE OCCULT.

SO FAR, SQUARES (& CUBES) ARE STRATEGIES (VERBIAGE) & TRIANGLES (& TETREHEDRA) ARE PRINCIPLES (NOMENCLATURE). I TRY TO KEEP IT SIMPLE BUT ULTIMATELY IT'S UP TO THE READER TO MAKE IT WORK.

I DON'T ENVISION A DIMENSION OF EVIL, BUT WITHIN A MORAL SPHERE, WE MAY HAVE A DIMENSION OF GOOD, POLES AT WISDOM & INNOCENCE, PERHAPS.

I MIGHT ALSO POSIT A DIMENSION OF MORAL RIGHT, POLES AT ACCURACY & HONESTY, BUT NOT A DIMENSION OF WRONG, WITH SOME OTHER SUCH POLES, OR YOU COULD POSIT GOOD & EVIL, RIGHT & WRONG POLES OF AXES TENSEGRAL TO EACH OTHER BUT WHAT DO YOU CALL THE AXES THEY DEFINE? HOW DO YOU SOLVE ALL THESE NEW RELATIONS?

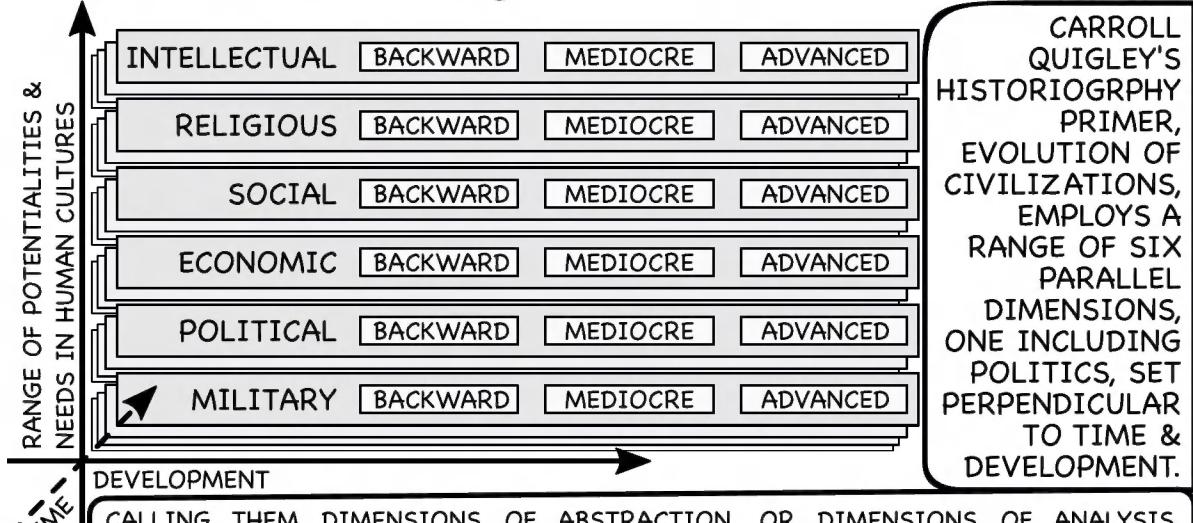
THE PURPOSE OF THIS BEGINNER'S MORAL COMPASS IS TO POINT TO MORAL RIGHT & MORAL GOOD, NOT THE CONTRARY, BUT YOU, THE READER, RETAIN DISCRETIONARY LICENSE IN ITS ADAPTATION TO YOUR NEEDS.

TAKE COMFORT IN THE TWO MOST ROBUST TIT-FOR-TAT STRATEGIES KNOWN, GENEROSITY AND CONTRITION: STRATEGIES WITHIN THEIR PLANES HAVE THE MOST STABILITY.

HOW ABOUT A DIMENSION OF NOTORIETY DEFINED BY ACCLAIM & PERSECUTION? IT'S FUN TO DRAW RELATIONS BUT NECESSARY NOT TO GET LOST IN ONE MANNER OF ANALYSIS, ONE WAY OF THINKING.

MORE MEASURES

CHAPTER FIVE



CARROLL QUIGLEY'S HISTORIOGRAPHY PRIMER, EVOLUTION OF CIVILIZATIONS, EMPLOYS A RANGE OF SIX PARALLEL DIMENSIONS, ONE INCLUDING POLITICS, SET PERPENDICULAR TO TIME & DEVELOPMENT.

CALLING THEM DIMENSIONS OF ABSTRACTION, OR DIMENSIONS OF ANALYSIS, QUIGLEY'S LEGACY PROVIDES OPPORTUNITY TO REVIEW & EXPAND THE POLITICAL SPHERE WE DESCRIBED IN CHAPTER TWO. GET YOUR PENCILS, PAPER, ERASERS & TINKERING SPIRIT IF YOU WANT TO SEE WHAT IT COULD POSSIBLY LOOK LIKE, BECAUSE WE HAVE NO ROOM FOR IT IN THIS VOLUME. RATHER, LET US EMPLOY QUIGLEY'S METHOD TO OUR OWN MORAL COMPASS. WE CAN EQUATE POLITICAL DEVELOPMENT WITH ETHICAL EMOTION, AS WE HAVE COMPARED OTHER POLITICAL & ETHICAL CONCEPTS. WE CAN LOOK AT TIME AS A FIFTH PERPENDICULAR DIMENSION. WE CAN ALSO RATHER, DECONSTRUCT OUR OWN MODEL & LOOK AT INDIVIDUAL ELEMENTS SEPARATELY IN A NEW WAY.

GENEROUS	BACKWARD	MEDIOCRE	ADVANCED
CONTRITE	BACKWARD	MEDIOCRE	ADVANCED
TIT-FOR-TAT	BACKWARD	MEDIOCRE	ADVANCED

SOME MAY CONTEND THAT GENEROUS IS ADVANCED & CONTRITE VERY ADVANCED, TIT-FOR-TAT, MEDIOCRE EVEN.

WE ARE NOT SIMULATING, AS DID ROBERT AXELROD, A COMPUTER MODEL IN THIS BOOK, ONLY A CONCEPTUAL MODEL. THAT IS NOT TO SAY THAT ONE CAN'T.

CONTRITE	1	2	3
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DO TWO CONTRITIONS MAKE A RIGHT? HOW MANY WRONGS WERE THERE? AXELROD'S RESULTS INDICATE ONE CONTRITION PER WRONG IS MOST STABLE, BUT IN MORALITY, WE MUST CONSIDER EVERYONE, NOT JUST TWO DIRECT PARTICIPANTS IN ANY GIVEN INTERACTION.

